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Grand Rapids
Growers, Inc.
SEED MERCHANTS

401-433 IONIA AVE., S.W. . . GRAND RAPIDS, MICHIGAN

Forcing Varieties

The Most Dependable Seed for Greenhouse Crops

THESE VARIETIES are used in all parts of the country by the best and largest growers in the business. If you are not familiar with these varieties, give us a trial order and get acquainted with their merits. Below we give you a partial description, with complete text found in the pages of this catalog. We have appreciated a nice business on our forcing varieties and an order from you will be filled on the same day received.

Michigan State Forcing Tomato

A new and distinctly different, self-pollinating wilt-resistant greenhouse Tomato developed at the Michigan State College. This past season it has found its place at the top of all others, as all growers reported "a wonderful Tomato." Vigorous grower and a heavy setter. Full description will be found on page 26. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; $\frac{1}{2}$ lb., \$3.50; 1 lb., \$7.00, postpaid.

Michigan State Forcing Tomato

RADISH

GRAND RAPIDS FORCING. New Improved. The best greenhouse variety and the earliest of the Scarlet Globe type, and superior in every way for greenhouse forcing. With the shortest top. Full description will be found on page 22. Price, oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



Grand Rapids Forcing Radishes



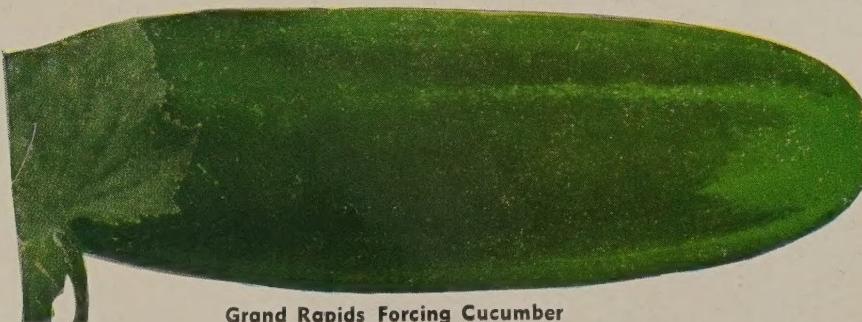
Grand Rapids Forcing Lettuce

TOMATO

GRAND RAPIDS FORCING. New. Improved. Select Growers strain. It's new and improved and is one of the best forcing Tomatoes on the market today. Full description will be found on page 26. Price, oz., 60c; $\frac{1}{4}$ lb., \$2.00; $\frac{1}{2}$ lb., \$3.25, postpaid.



Grand Rapids Tomato, New Improved



Grand Rapids Forcing Cucumber

LETTUCE

GRAND RAPIDS FORCING (Washington Strain). A splendid forcing strain. Color a light green, heads very heavy; leaf crisp, tender and curly; quality of the best. Complete description will be found on page 15. Price, oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

CUCUMBER

GRAND RAPIDS FORCING. Improved Strain. New. A white spine selection, medium sized with blunt end, averaging 10 to 12 inches in length. An ideal forcing variety. Full description will be found on page 13. Price, oz., \$1.25; $\frac{1}{4}$ lb., \$3.50; 1 lb., \$12.00, postpaid.

1946

PLEASE USE THIS ORDER SHEET

GRAND RAPIDS GROWERS, Inc.

Grand Rapids, Michigan

NAME Date 19

Post Office State
Street, P. O. Box
or Rural Delivery
Express or Freight Office (If Different from P. O.) Forward Goods by

AMOUNT ENCLOSED

5%

Money Order - - \$.....

If Your Order
Amounts to
\$1.00 or More.

Draft or Check - \$

Postage Stamps - \$

Cash - - - - - \$

DISCOUNTS

Except on Peas, Beans and Corn

10%

**If Your Order
Amounts to
\$5.00 or More.**

This discount applies on spring orders of GARDEN SEEDS only, if ordered before April 1st. Orders received after April 1st are not subject to discount. Michigan State sales tax will be charged where applicable.

ALL OTHER ITEMS ARE NET CASH AS QUOTED. MONEY MUST ACCOMPANY ALL ORDERS. DISCOUNTS DO NOT APPLY ON CANADIAN ORDERS.

More Order Blanks will be sent upon request. Always write letters on a separate sheet from your order.

Make Money Orders or Checks payable to Grand Rapids Growers, Inc.

All of our seeds are tested, and we guarantee the vitality and purity to the full amount of the purchase price, and you can have full redress at any time if you are not satisfied with the results but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore in no case can we be held liable for more than the amount actually paid for the seeds.

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

PLANT A VICTORY GARDEN FOR DEFENSE

ORDER SHEET — Continued

**DO NOT
Write In
This Space**

SPECIAL NOTICE: As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

Grand Rapids Growers, Inc.

Twenty-Sixth Annual Seed Catalog

1946

Important

By Carefully Following These Suggestions, Many Mistakes Will Be Avoided

Order Blanks

Order blanks have been inserted in this catalog for your convenience. Please use them. Fill in your NAME, POST OFFICE, SHIPPING POINT or nearest EXPRESS OFFICE, your COUNTY and STATE, as this is as important in the prompt filling of your order as the order itself. Write plainly and avoid mistakes. Additional order blanks are mailed with every order. If you do not receive them, please notify us, and we will be glad to furnish them.

Terms

Our terms are strictly cash and we ask that you enclose your remittance with order. On all vegetables and flower seeds EXCEPT peas, beans and sweet corn, you may deduct 5% as your savings if your order amounts to \$1.00 or more, and 10% on all orders amounting to \$5.00 or more. This discount applies only on spring orders of garden seeds if ordered before April 1st. Orders received after April 1st are not subject to discount. This offer does not apply on special offer collections, bulbs or plants.

This offer is good only in the U. S. A. and your remittance must accompany your order to entitle you to the discount. While we do not think there will be any serious changes, all prices quoted herein are made subject to change without notice. Michigan State Sales Tax will be charged where applicable.

How to Send Money

Remittance should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, BANK DRAFT or CERTIFIED CHECK. It is perfectly safe and your order will be assured of prompt handling. U. S. CURRENCY and U. S. POSTAGE STAMPS for small amounts, are acceptable but in this case the letter should be REGISTERED.

Canadian Customers (Notice)

We are very thankful for the business you have given us in the past and we will continue to give you our very best of service and quality seeds.

Please take special notice that we cannot make C. O. D. shipments to any part of Canada and cannot pay postage on any items of seed in this catalog above the pound rate.

We also ask that you make your remittance in United States funds as the discount on Canadian paper is far in excess of where it was and will not permit us to honor same at face value. You can, however, obtain a bank draft or money order payable in U. S. funds and will ask that you consult your banker or postmaster. Personal checks or currency are not acceptable.

Non-Warranty

All of our seeds are tested and we guarantee the vitality and purity to the full amount of the purchase price, and you can have full redress at any time if you are not satisfied with the results, but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore, in no case can we be held liable for more than the amount actually paid for the seeds.

Small Orders

Small orders are just as welcome as the larger ones and receive the same careful attention and prompt handling. All orders are filled the same day as received.

Large Quantities

Parties buying large quantities of any one variety of seeds will be quoted special prices on application.

Price of Seeds By Weight

We will supply HALF POUNDS and over at the pound rate; less than half pound lots are charged at the quarter pound and ounce rate.

Safe Delivery

All seeds and supplies sent out by us are fully insured and we guarantee their safe arrival. If there is any damage, notify us immediately.

Postpaid Prices (Important)

We prepay postage on all vegetable and flower seeds in packets, ounces, quarter pounds, half pounds and pounds at the prices quoted herein to any point of the United States or any of its possessions, and Canada; however, we do not pay postage on beans, corn, or peas beyond the "one pound" price; field seeds, onion sets, miscellaneous supplies, or anything that is not specifically listed "postpaid." If such items are wanted by parcel post, add sufficient postage as per Parcel Post Rates given below.

Air Mail

On RUSH ORDERS received by mail or wire for one ounce or more of seed, we will send by air mail if so requested at a nominal charge of 8c PER OUNCE of seed ordered, as the postal rate is 8c for EACH ounce. One ounce of seed would weigh more than one ounce when it is packed ready to mail. Where the mailing weight is less than one ounce, we will pay the postage. This will give you overnight service to almost any point in the United States.

Weight Limit

The weight limit is now 70 lbs. anywhere in the United States, and we advise sending seeds by mail as the service is good; however, on shipments of 20 lbs. and over it is cheaper to send by express, beyond the third zone.

Parcel Post Rates

Zone	Miles of Grand Rapids	1st lb. or Fraction	Add to Each lb. or Fraction, 2c for Packing
1st,	within 50 miles	9c	2c
2nd,	within 150 miles	9c	2c
3rd,	within 300 miles	10c	2c
4th,	within 600 miles	11c	4c
5th,	within 1000 miles	12c	6c
6th,	within 1400 miles	13c	7c
7th,	within 1800 miles	15c	9c
8th,	within 1800 miles	16c	11c
	Canada, all parts	14c	14c

If in doubt obtain your zone rate from your postmaster.

Grand Rapids Growers, Inc.
Seed Merchants

Cor. Wealthy and
Ionia Ave., S.W. Phone 97216.

Grand Rapids, Mich.

Asparagus

CULTURAL DIRECTIONS. One-half ounce of seed will sow 50 feet of drill and produce about 500 plants. Drill the seed in rows about 24 inches apart, covering seed 1 inch. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following spring. An application of a good commercial fertilizer in the spring is recommended to avoid weed seeds in barnyard manure and an application of phosphate and potash after the cutting period. Do not cut until the third year, limit cutting to the middle of June. Every fall before the seed is ripe, cut tops and burn them. Remember, the bed well planted will last for at least 20 years, treat it well.

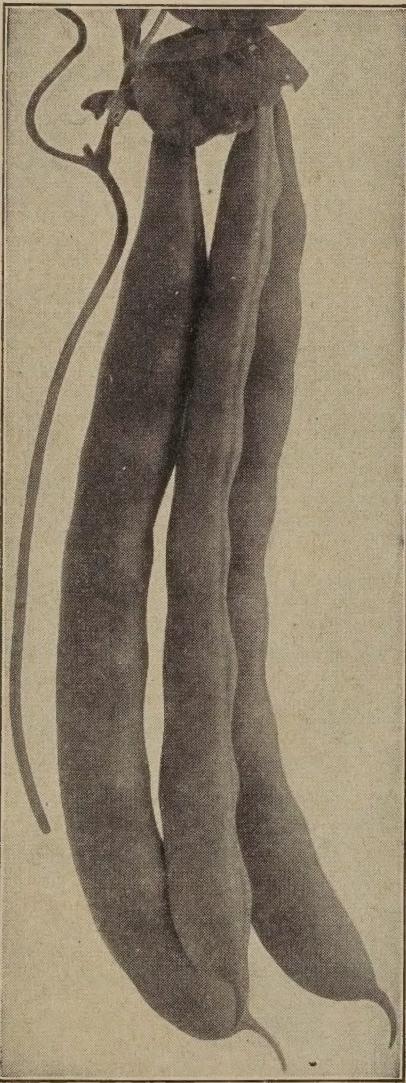
★ **Mary Washington Rust-Resistant Asparagus** The largest and most tender green Asparagus. This is a decided improvement due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Paradise New. Early maturity, heavy producer and fine quality. It looks it is very similar to Mary Washington. The stems are just as large and just as green, but here it ceases, as Paradise is much milder, and will produce a crop the second year from seed. Remarkable results have been obtained, and it is recommended for the home garden as well as market. Oz., 40c; $\frac{1}{4}$ lb., \$1.20; 1 lb., \$4.00, postpaid.

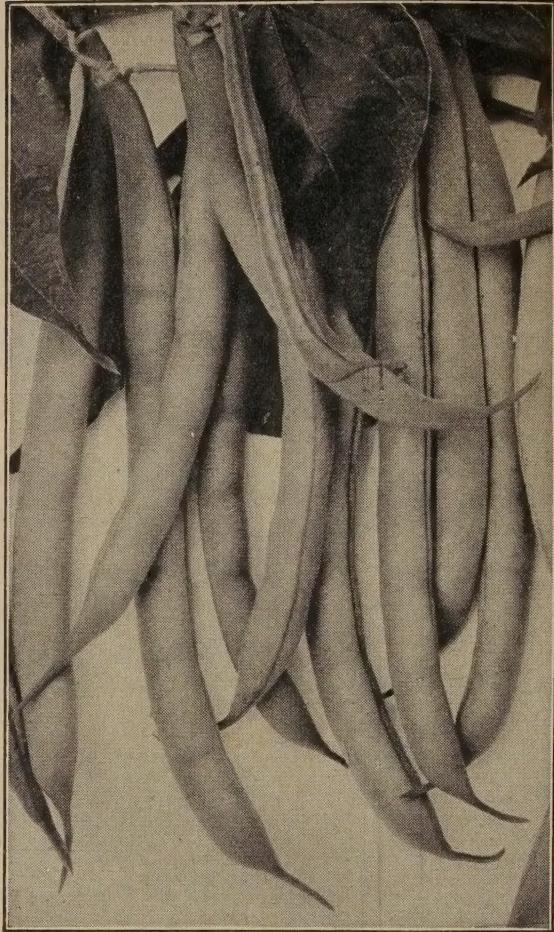
Asparagus Roots

We have the Palmetto and Mary Washington Rust-Resistant Asparagus Roots, every spring, and as we only handle the very best two-year roots, that are locally grown, we will ask that you write us for prices in whatever quantity you may want.

Beans



Landreth Stringless Green Pod



Pencil Pod Black Wax

CULTURAL DIRECTIONS. One pound to 100 feet of drill; about three-fourths bushel per acre of Bush Beans. Beans thrive on a rich, warm, light soil. It is not safe to plant until about the middle of May, as the seed will rot in cold, wet ground, and plants will not stand frost. Plant dwarf beans in rows 2 feet apart and from 4 to 6 inches apart in the rows. Lima Beans should not be planted until June first, when the soil is thoroughly warmed through. Limas will rot in cold ground.

Wax Podded Varieties

★ **Pencil Pod Black Wax** 52 days. Pods are round, very long, tender, and entirely stringless. Extremely productive. Best market gardeners' sort. 1 lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00. Crop very short.

★ **Unrivaled Wax Beans** 53 days. Small plant, very early and great yielder. Pods about $5\frac{1}{2}$ inches long. Somewhat curved, semi-flat, fleshy and very tender and stringless. Color pale yellow. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Improved Golden Wax 48 days. One of the earliest dwarf wax sorts. Pods flat, long, golden yellow, tender, stringless. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Webber Wax (Cracker Jack). 48 days. Extremely early and productive. Pods 5 to $5\frac{1}{2}$ inches long, flat but thick and of good quality. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Sure Crop Wax 58 days. Plant large and dependably productive. Pods deep yellow; 6 to $6\frac{1}{2}$ in. long, $\frac{1}{2}$ in. wide, thick; very fleshy, stringless, brittle, fine grained. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Green Podded Varieties

★ **Landreth Stringless Green Pod** 53 days. An improvement of Burpee's Stringless Green Pod. Vine is more erect, with darker foliage and a longer, slimmer pod. Pods 6 to 8 inches long, slightly curved, meaty, and absolutely stringless. Undoubtedly the best round-podded bean on the market today. Very prolific and an ideal variety for the home garden, market gardeners and canners. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

★ **Tendergreen** 54 days. A new introduction, and now one of the most popular green beans. Hardy; dependable cropper, medium large, dark green and stringless. 1 lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

★ **Giant Stringless Green Pod** 53 days. Similar to Landreth Stringless but pods are a little longer, straighter and more slender, more depressed between beans and slightly lighter in color; early, hardy and of highest quality. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Green Podded Varieties—Cont.

Bountiful 48 days. Best of the flat-podded varieties. Pods 6½ to 7 inches long, thick, flat and slightly curved. Stringless and of fine quality, color light green. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Black Valentine 52 days. A round-podded, stringless shipping and market garden variety. Pods 6 to 6½ inches long, dark green, slightly curled at the end. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Plentiful 50 days. Very desirable for shipping or for the home and market garden. It is a green flat-podded bush bean, an improved, very productive variety of the Bountiful type. Long straight, medium deep green pods, brittle, stringless and of a distinctive flavor. Notably resistant to common rust. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Refugee or 1000 to 1 70 days. A very productive, hardy, vigorous late sort. Pods 5 to 5½ inches long, somewhat slender, round and slightly curved, almost stringless and of good quality; color light green. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Kentucky Wonder or Old Homestead 65 days. The most popular green-podded, climbing Bean; early and productive. Pods 8 to 9 inches long, very slender. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Dutch Case Knife (Snijboonen). 65 days. Pole Bean. Green snap pods, 7 to 8 inches long, straight, flat, brittle, of good quality; best as a shell bean. Beans very flat, ivory-white. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Lima Beans Pole Varieties

King of the Garden Lima 88 days. An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide, and uniformly four-seeded. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Early Jersey Pole Lima (Sieberts). 80 days. An early midseason variety. Very productive and highest quality. Pods 5 to 6 inches long; beans rather thicker than the King of the Garden, but of the same type. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Dwarf or Bush Varieties

Baby Potato Lima (All-America Selection.) 72 days. A prolific bush Lima originated as a field cross between Henderson's Bush Lima and one of the potato Lima types. The seeds are small but thick, of bright green color when fresh, and similar in flavor to Fordhook. Adapted not only for produce market, but also for canning and quick freezing. 1 lb., 55c, postpaid. Not prepaid, 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.50.

Burpee's Improved Bush Lima 75 days. Both beans and pods are larger than the old type. The pods measure 5 to 6 inches long by 1¼ inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. 1 lb., 55c, postpaid. Not prepaid, 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.50.

★ **Fordhook Bush Lima** 75 days. A most excellent variety and exceedingly popular with market gardeners. Pods are about 5 inches long, containing 4 to 5 large, oval-shaped, very thick, white beans. 1 lb., 55c, postpaid. Not prepaid, 10 lbs., \$5.00; 25 lbs., \$11.50; 50 lbs., \$22.50.

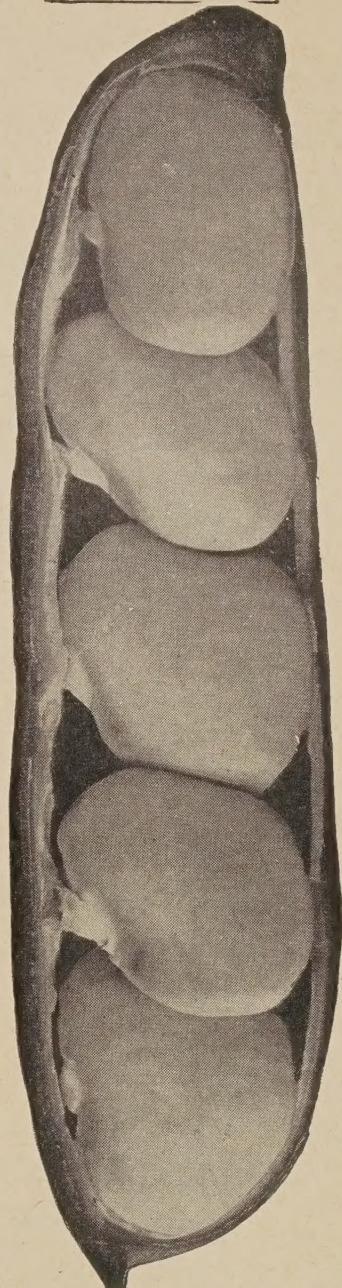
★ **Henderson Bush Lima** (Baby Lima). 65 days. A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat, white beans. 1 lb., 40c, postpaid. Not prepaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Beets

CULTURAL DIRECTIONS. One ounce to 50 feet of drill; 6 to 8 pounds per acre. Beets prefer a well-prepared friable soil planted from ½ inch to ¾ inch deep, according to the texture of soil. For an early crop sow in drills 1 foot apart. Sow as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to 3 inches apart in the row. Beets can be sown as late as July for main crop. Hen manure is recommended as a fertilizer in the rows; care being used that the seed does not come in immediate contact with the fertilizer.

★ **Early Wonder** 55 days. An early variety. It is turnip-shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

★ **Detroit Dark Red** (Morse's Strain.) 55 days. The best for market garden or home use. Roots smooth, medium size, globe-shaped; skin dark red; flesh solid vermillion-red. Tops small, upright, dark green, shaded red. Oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Burpee's Improved Bush Lima

Detroit
Dark
Red
(Morse's
Strain)

All prices quoted herein are subject to available stocks on hand and subject to change without notice.

BEETS—Continued

Crosby's Egyptian 58 days. Where an early market sort is desired, our strain is unequalled. Roots a flattened globe shape, skin very dark red, flesh a trifle lighter, tops small. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Eclipse 65 days. An early variety with small tops and medium sized, round, clear red roots; flesh bright red. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Early Blood Turnip, Improved 60 days. The old standard table Beet. Roots nearly round or slightly flattened, bright red, zoned and of good quality. Not so early as Detroit, but with a larger, coarser top. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Green Top Bunching 60 days. Early, extremely attractive bunching beet. Tops medium sized and erect. Foliage clean, grayish green that does not turn red or brown in the fall. Roots round, smooth and glossy, flesh bright blood-red. Mostly grown for beet greens. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Mangel or Stock Beets

CULTURAL DIRECTIONS. One ounce to fifty feet of drill, five pounds per acre. Sow early in the spring, in rows about two feet apart; cover seed one and one-half inches deep, pressing the ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

Mammoth Long Red 120-150 days. A favorite with the dairyman and farmer. Large, well-formed; dark red color, very nutritious; a big cropper. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Golden Tankard 120-150 days. Very productive and sweet; tops and neck very small; flesh yellow; especially relished by cows and sheep. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Sugar Beets

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for winter feed. They are also excellent for poultry.

Giant Feeding Sugar 120-150 days. A most valuable, large yielding variety for feeding; half sugar, oval-shaped, skin rose colored, flesh white, very nutritious and easily harvested. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.



Italian Green Sprouting Broccoli

Broccoli

A frequent application of Nitrate of Soda can be of great value to promote the life of this crop.

Italian Green Sprouting 75 days. This variety produces a large head, like cauliflower, consisting of a compact cluster of bluish green flowers. When the central head is removed, the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served as Cauliflower. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50, postpaid.

Cabbage

CULTURAL DIRECTIONS. One ounce will produce about 2,000 plants; 10,890 plants will plant an acre of early Cabbage; and 7,260 plants for an acre of late. Three ounces of seed will plant an acre of early and five ounces an acre of late Cabbage. For early Cabbage, sow seed in hotbeds in January or February. Transplant as early as possible to the open ground about two feet apart each way. For late Cabbage, sow seed in the open ground in May and transplant about July first in rows $2\frac{1}{2}$ feet each way.

In fertilizing, we recommend hen manure at the rate of one handful to three feet in the furrow. Care must be used so that the roots do not come in direct contact with the manure.

Early Varieties

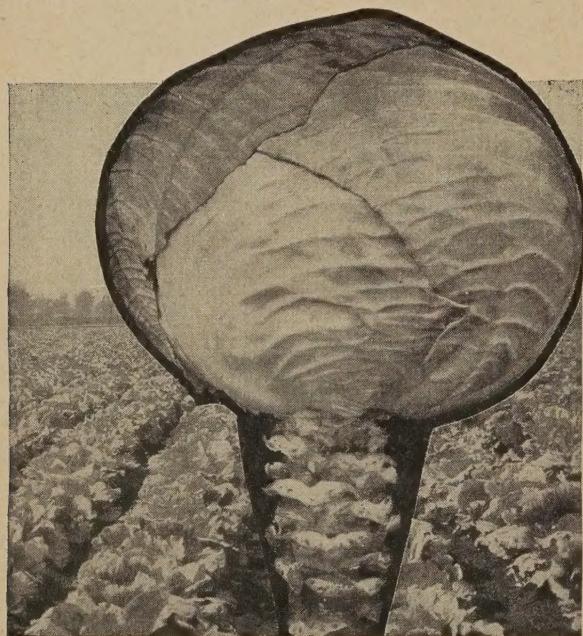
★ Golden Acre 64 days. Heads round, very hard. Matures two or three weeks earlier than Copenhagen Market, but is otherwise quite similar. Owing to earliness and remarkable uniformity, Golden Acre will prove the most profitable early Cabbage for market gardeners. Oz., 40c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.50, postpaid.

Early Jersey Wakefield 62 days. Market gardeners in general consider this the best early variety. The conical heads are very uniform in shape and very solid. Our stock is dwarf, compact and extremely early. Oz., 40c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.50, postpaid.

Improved Copenhagen Market 65 days. Nearly as early as the Jersey Wakefield. Stems short, heads large, round and solid, with few outer leaves. Oz., 40c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.50, postpaid.

Green Acre 66 days. A comparatively new strain with the general characteristics of Golden Acre, but holds its green color longer and is thus of added value to market gardeners and shippers. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Ferry's Round Dutch 71 days. Splendid for home and market garden. Plants small and compact; stem short. Heads almost ball-shaped; commonly 7 to 8 inches in diameter, 6 inches deep, and weigh $4\frac{1}{2}$ to 5 lbs.; firm and of high quality. Oz., 40c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.50, postpaid.



Danish Ballhead



Golden Acre Cabbage

Mammoth Rock Red 90 days. Heads solid, of good size and quality. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.

Red Stonehead 80 days. An exceptionally good variety, forming uniform round heads; smooth, hard, of a glowing red color. A good keeper. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.

YELLOWS-DISEASE-RESISTANT VARIETIES

★ Yellows Resistant Golden Acre 62 days. This strain can be grown successfully on soil infested with yellows. Can be cut just as early as the standard variety, and has a similar yield. But under abnormal conditions and backward weather, it has a tendency to bolt readily and the regular strain is recommended. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50.

★ Wisconsin Hollander No. 8 (Yellows-resistant). 90-100 days. A heavy yielding late storage type, highly resistant to yellows. Round head, and yields greater tonnage than the ordinary strains. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50.

★ Marion Market 75 days. A yellows-resistant strain of Copenhagen Market. Round head and crisp tenderness of the parent cabbage. Principally adapted on yellows infested soils where non-resistant strains fail completely. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Brussels Sprouts

The culture is the same as for cabbage which it resembles, the edible part being the small heads, an inch or two in diameter that form at each leaf joint all the way up the stalk. The leaves should be broken off in the fall to give more room for the little heads to grow. Delicious and more tender than any cabbage. 90 days. Half-dwarf. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

Celery Cabbage or Chihili

CULTURAL DIRECTIONS. One ounce will produce 2000 plants. Do not sow seed till the last of May, earlier sowing generally going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned.

★ Chihili 70 days. It has a delicate cabbage flavor, much milder than cabbage. The heads are long, about 16 inches, rather slim, coming to a point at the top. Color a very thick hard bluish green, with the inner leaves and stalks blanched to a beautiful snow-white. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50, postpaid.

Swiss Chard

CULTURAL DIRECTIONS. One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer and if given a little protection during the winter, will produce early greens in the spring.

Lucullus 55 days. Leaves large and curly. Plant grows about 2 feet high, mid-ribs are very broad and are a good substitute for asparagus during the summer months. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

New Rhubarb A Chard of unique crimson color. Stalks sweet and succulent. Bright red in color; leaves green to bronze, heavily veined with red. Plants are vigorous and will yield a tremendous crop throughout the summer and fall, until killed by frost. Pkt., 15c; oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.00, postpaid.

Late Varieties

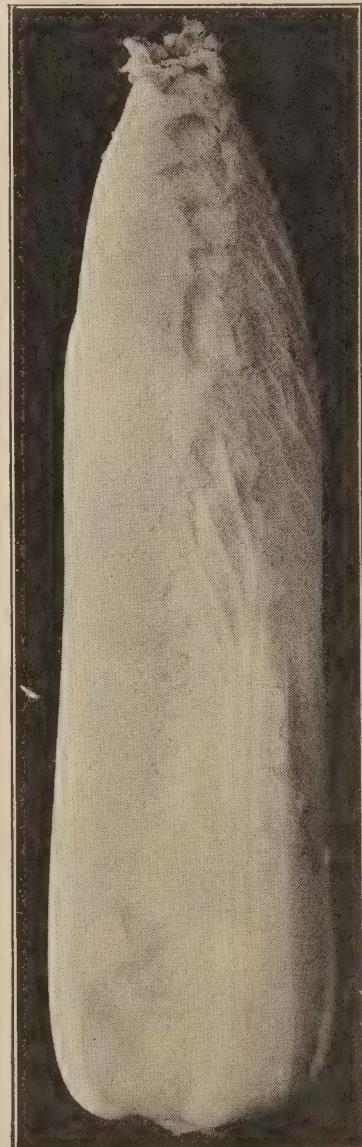
Ferry's Hollander 100 days. Decidedly the best variety of late Cabbage. Heads become firm while still rather small. They reach good marketable size in 90 to 100 days, but continue to enlarge, maturing in about 120 days. Plants medium small, allowing closer planting, short stem, erect and compact. Extremely hardy, splendid quality and keeps perfectly in storage until late spring. Oz., 45c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

★ Penn State Ballhead 100 days. A heavy yielding strain of the short stem Danish Ballhead type. Originated by Pennsylvania State College. Yields as high as 26 tons per acre have been recorded. Oz., 45c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

★ Danish Ballhead 95 days. Short-stemmed, heads round, very solid and heavy. Splendid keepers, hardy, and the best winter sort. Oz., 45c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

Premium Flat Dutch 105 days. Highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender. Oz., 30c; $\frac{1}{4}$ lb., \$1.00; 1 lb., \$3.50, postpaid.

American Savoy (Chieftain). 85 days. Large, flattish heads, very curly and hard. One of the best Savoys. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.



Chihili Celery Cabbage

CELERY—Choice

CULTURAL DIRECTIONS. One ounce will produce from 5,000 to 10,000 plants; two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer, but as muck soils are usually well supplied with an abundance of nitrogenous matter, a fertilizer high in phosphate and potash usually gives the best results.

YELLOW VARIETIES

New Golden Self Blanching 85 days. New type. Grown from the celebrated "Vilmorin" French strain. It has a long stalk and is commonly called "TALL STRAIN." It makes a magnificent growth of tall, broad, flat stalks of a lighter shade of yellow. The leading variety grown today, and it can be grown for either an early or late crop, as it bleaches very easily in either boards or dirt, and is superior for storage and trenching, for its long keeping qualities. Oz., \$1.00; $\frac{1}{4}$ lb., \$3.50; 1 lb., \$12.00, postpaid.

Golden Plume (New strain.) Our improved strain fills the need for a taller, long-stemmed Golden Plume. Retains earliness and ease of blanching of the original strain, but is more compact in form, straighter, and much better adapted to the standard crate. Normally 24 to 26 inches tall, with stems $7\frac{1}{2}$ to $8\frac{1}{2}$ inches and a full heart. Oz., \$1.25; $\frac{1}{4}$ lb., \$4.00; 1 lb., \$15.00, postpaid.

Growers Wonderful 80 days. A valuable early variety similar to the Golden Plume. The plants are semi-dwarf, very vigorous and have a very full heart which bleaches quickly to a golden yellow color. An excellent sort for market gardeners. Oz., \$1.00; $\frac{1}{4}$ lb., \$3.50; 1 lb., \$12.00.

New Golden
Self-Blanching
Celery

Jersey Golden Plume (Taller Strain.) An exceptionally vigorous grower that blanches quickly. It has that full plumed center, so much desired by the trade. It is uniform, solid and shows less tendency to blight or crown rot, than any other strain we know of. On account of the great care taken in selecting and rogueing we know there is none better. The ribs are from 7 to 8 inches to the first joint, according to growing conditions and the height is about 26 to 28 inches. Oz., \$1.75; $\frac{1}{4}$ lb., \$6.50; 1 lb., \$24.00, postpaid. Supply short.

Cornell No. 19 100 days. An early, easy blanching strain of outstanding quality, described as a cross between the Self Blanching and the Utah. $10\frac{1}{2}$ -11 inches to joint with an overall length of 24 to 25 inches. Hearts long and comparatively full. Stems thick, rounded and of smooth texture. Combines the good qualities of the Pascal type and is highly resistant to fusarium yellows. Oz., \$1.75; $\frac{1}{4}$ lb., \$6.50; 1 lb., \$24.00, postpaid.

Old Golden Self blanching and dwarf. An old standard market and shipping variety. Oz., \$1.00; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00, postpaid.



Jersey Golden Plume Celery

Kilgore's Pride 105 days. A very early marketing variety. Broad, thick-ribbed, 8 to 10 inches to the first joint and averaging 25 inches over all. Heavy heart and a very heavy yielder. Oz., \$1.75; $\frac{1}{4}$ lb., \$6.00; 1 lb., \$22.00, postpaid.

SUPPLIES FOR CELERY GROWERS

Krop-Saver C-1 Dust. This fungicide is a new material containing an insoluble copper with light weight talc as a carrier. No water or moisture required to make it active. Can be dusted on celery when the leaves are dry. Lends plant stimulation through copper being absorbed through the leaf surface. Many celery growers are using this new dust and getting improved celery yields.

Celery Bleaching Paper. "Farmrite" is really what the celery grower wants. It is constructed of two sheets of heavy, first quality kraft paper combined with a waterproof, light-excluding cement of asphaltum and is heavily re-inforced with strong cords to resist tearing. Comes in 10-inch

wide rolls by 310 feet long and 12-inch wide rolls by 310 feet long.

Celery Tapes, 17 and 21 strand. Celery Braids, 13, 17, 21 and 25 strand. Hard and soft twist string in 4-, 6- and 8-ply for hand tying. All red in color.

See pages 30, 47, and 48 for **Planet Jr. Tools**, various types of **Dusters, Tying Machines and Washers**, as well as **Fungicides, Insecticides and Fertilizers**.

Prices quoted upon application, and we would appreciate an opportunity to quote you on your requirements.

Market Garden Varieties

GREEN VARIETIES

★Grower's Earligreen The finest, earliest green Celery we know. Vigorous and compact in habit of growth. Plant is surprisingly large for an early sort. The outer leaves are green and the very full heart is pure white, brittle and of the most delicious flavor. In our trials this past season this proved to be an outstanding variety in all details. It is the best green celery on the market today, and should be in heavy demand this year. Oz., \$1.75; $\frac{1}{4}$ lb., \$6.50; lb., \$24.00, postpaid.

Fullheart 100 days. Produces shorter and more stocky plant than the Easy Blanching Celery from which it is evidently a selection. Oz., \$1.00; $\frac{1}{4}$ lb., \$3.50; lb., \$12.00, postpaid.

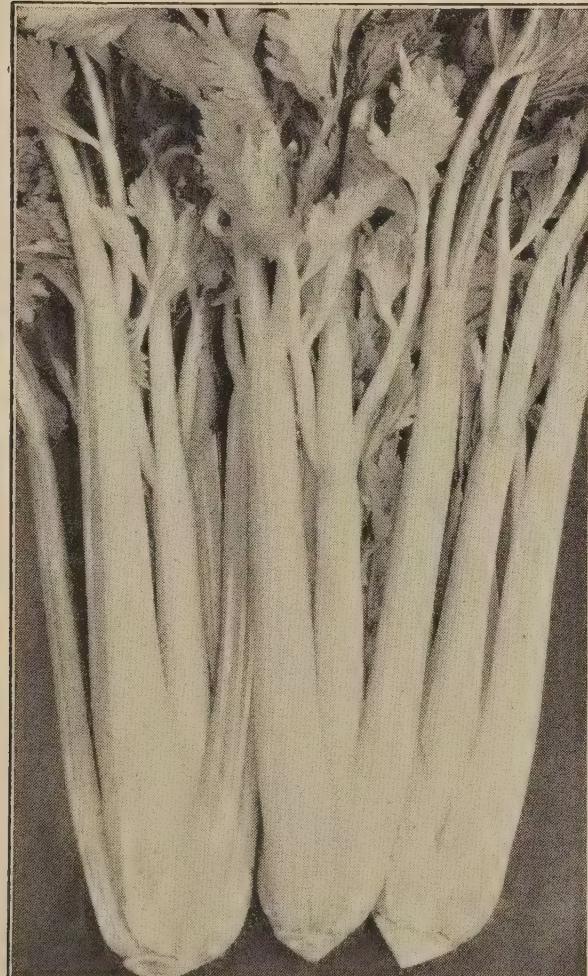
Growers Epicure An early green Celery. Height 22 to 28 inches. Oz., \$1.50; $\frac{1}{4}$ lb., \$5.50; 1 lb., \$20.00, postpaid.

Improved California Pascal (D6.) Height 22 to 24 inches. Very heavy, well rounded channel. Stems very smooth and brittle, excellent heart. May be used for a summer Pascal or a later crop for storage. Oz., \$1.50; $\frac{1}{4}$ lb., \$5.50; 1 lb., \$20.00, postpaid.

California Pascal A green midseason celery. Easy to blanch. Height 26 to 28 inches, stems 9 to 10 inches long. Very heavy, rounded with narrow channel, slightly tapered. Stems numerous, forming a compact head. This is the strain that is proving successful in many of the larger markets. Oz., \$1.50; $\frac{1}{4}$ lb., \$5.50; 1 lb., \$20.00, postpaid.

Superior Utah A new strain of the Pascal family. We suggest a trial of this new variety to growers of Pascal Celery. $\frac{1}{4}$ oz., 50c; $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.75, postpaid. For trial purposes only.

Paragon A Celery of exceptional merit. The plant is dwarf, vigorous, quite hardy, and has a very full heart. Stalks broad, quite thick, very solid, crisp and tender, bleaching readily to a golden yellow color. Highly recommended for an early or late crop. Oz., \$2.00; $\frac{1}{4}$ lb., \$6.50; 1 lb., \$24.00, postpaid.



Paragon

Pride of the Market A dwarf, thick-stalked variety, vigorous grower, not easily blighted; and a good yielder. Recommended for late crop. Our seed is grown by the originator. Oz., \$1.50; $\frac{1}{4}$ lb., \$5.00; 1 lb., \$18.00, postpaid.

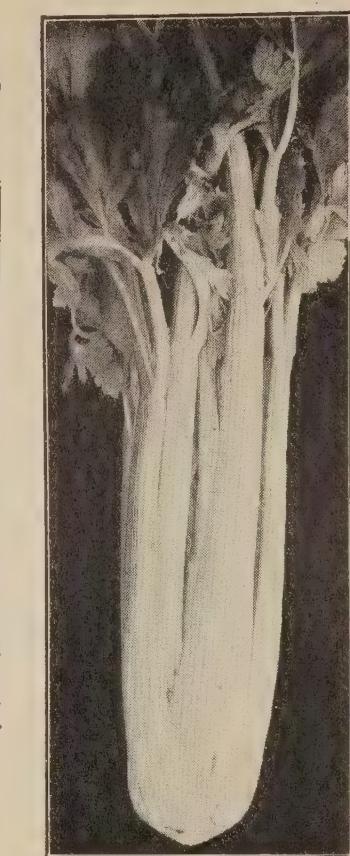
Giant Pascal A tall late, green Celery of excellent quality. Leaf stalks round, thick and solid. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.

Fordhook Emperor Plants stocky and compact. Stems thick, round and of fine quality. Excellent green Celery for late fall use and for winter storage. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.

Winter Queen The best late or winter variety. Moderately dwarf, erect, and compact with solid heart. A green variety. Oz., 35c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.00, postpaid.

New Growers Green

A superior strain of a green Celery, having the characteristics of the Newark Market but greatly improved in that it has greater vigor and quicker bleaching ability. The stalks are large, thick and fleshy, very brittle, crisp and of fine flavor. Many growers who are having trouble with their yellow Celery should try this strain. Oz., \$2.00; $\frac{1}{4}$ lb., \$7.00; 1 lb., \$25.00, postpaid.



Earligreen



New Growers Green

Michigan Golden Celery

MICHIGAN
GOLDEN



YELLOWS-RESISTANT
SELF-BLANCHING CELERY

An improved strain of the original Michigan Golden variety bred by plant pathologists of Michigan State College for resistance to Fusarium yellows and introduced by Grand Rapids Growers' Inc.

**GENUINE MICHIGAN GOLDEN SEED IS SOLD ONLY IN
PACKETS BEARING THE SEAL OF MICHIGAN
STATE COLLEGE**

Michigan Golden is highly resistant to Fusarium yellows, also known as root rot, crown rot, stunt or sickness. It is not resistant to other celery diseases and seed treatment together with the use of protective dusts or sprays must be relied upon to control leaf blights.

In any inquiry concerning this seed inclose this label and address your communication to

MICHIGAN STATE COLLEGE
DEPARTMENT OF BOTANY AND PLANT PATHOLOGY
EAST LANSING, MICHIGAN

No warranty, expressed or implied, is given as to description, productiveness or purity of this seed and we can not be in any way responsible for the crop. If the purchaser does not accept these terms the seed should be returned immediately and money will be refunded.

Original Michigan State College seed is sold only in packets bearing this label and the seal of the College. No other seed is genuine. Beware of bulk seed of this variety.

G

Serial No.

Michigan State College Fusarium Yellows-Resistant Celery

Michigan Golden Celery was introduced by us in 1933 and its record since then has proven it to be the most resistant and the most productive yellow celery for growing on soils infested with the destructive root rot fungus. It is an especially valuable variety for midsummer and late crops that are subjected to the high soil temperatures of the summer months. Under those conditions Fusarium Yellows is most destructive in susceptible varieties of celery. Michigan Golden retains its high resistance under summer temperature conditions most favorable for root rot and will produce a crop when less resistant varieties are ruined.

Due to the nature of the Fusarium Yellows disease continuous breeding is required to maintain the high resistance of this variety. As a result of continuing reselection work, Michigan Golden is now greatly improved over the original introduction. Larger and more uniform stalks with a heavier base are characteristic of this new strain.

We strongly recommend Michigan Golden for planting in soils where Fusarium Yellows or root rot attacks other varieties of yellow celery. We especially recommend it for the summer and late crops. No one variety is adapted for use on all soils and for all climatic conditions. Michigan Golden is especially adapted for Michigan conditions but is widely and successfully grown in other sections of the country where root rot is also a destructive disease.

Michigan Golden was developed by plant pathologists of Michigan State College and the breeding work is continuing under their supervision. All genuine Michigan Golden seed is grown under their control, packaged at the college and sold only in the original sealed containers.

Prices: $\frac{1}{2}$ oz., \$1.00; 1 oz., \$1.50; 2 ozs., \$3.00;
 $\frac{1}{4}$ lb., \$5.00; 1 lb., \$20.00, postpaid.

One Dozen Stalks is an Armful of Michigan Golden



Early Select Snowball

SEED TREATMENT PAYS

Treat your seeds with Semesan disinfectants and assure yourself of a crop.

Seed treatment pays no matter what kind of seed is treated. We handle a complete line.



Carrots

CULTURAL DIRECTIONS. Carrots require about the same simple care as beets; they have no serious insect enemies, and they are rarely attacked by disease. It is best to plant them in soil that is friable and richly fertilized. Plant the seed one-half inch deep in loose, well-prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as the plants are well established and thin to 2 or 4 inches in the row, according to the size of the variety. Plantings may be made from early spring until mid-June. For winter storage the later date is advisable.

Supreme Half Long 75 days. Resembles a small refined Danvers with short tops. Roots 6 to 7 inches long, about 2 inches in diameter at shoulder, tapering to a half stump. Exterior smooth and of excellent color. Interior flesh tender, sweet and of fine flavor. Core small and the same dark red as the rest of the flesh. Oz. 30c; $\frac{1}{4}$ lb., 95c; 1 lb., \$3.00, postpaid.

Danvers Half Long (75 days.) A standard variety for many years, but superseded and improved in the Supreme Half Long described above which we suggest.

★ **Streamliner** 77 days. An ideal new bunching Carrot for shippers and market gardeners. Tops short, rather sparse, dark green and strong. Roots long, slender, nearly cylindrical, 8-10 inches long, and they grow completely underground. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

Imperator 77 days. Smooth and attractive in appearance, 7 to 8 inches long, with rounded shoulders and medium tapered roots. And the deep orange color of the exterior extends throughout the core and inside flesh, making it a Carrot of exceptionally fine flavor and quality. Used extensively for bunching. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50, postpaid.

★ **Nantes Coreless, Strong Top** 68 days. A very superior Carrot. It is coreless, brittle, fine grained and of fine, mild, sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical, and very stump-rooted. Oz., 30c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.75, postpaid.

★ **Chantenay, Red-Cored** 70 days. This is a distinct improvement over the well-known standard Chantenay, especially in color, texture and quality of flesh. Roots 5½ to 6 inches long, 2¼ inches thick at the shoulder; tapered stump root. Flesh and core reddish orange, fine grained and tender. A favorite with canners, market gardeners and shippers. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

Chantenay, Long Type 70 days. A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer but fully as large; stump rooted at maturity. Texture and color equal to Red-Cored Chantenay. Suitable for bunching or bushel use. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

Touchon 68 days. A quality carrot for home and market garden. Tops medium height and strong. Roots orange-scarlet, 6½-7½ inches long; 1¼-1½ inches thick; straight, cylindrical, strictly stump-rooted. Flesh deep orange with inconspicuous core. Similar to Nantes but preferred by some for greater length and stronger top. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50, postpaid.



Nantes Coreless Carrots



Imperator Carrots

★ **Morse's Bunching** 77 days. Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are 1¼ to 1½ by 8 inches in size, almost cylindrical with rounded shoulders, and are well stumped. Oz., 30c; $\frac{1}{4}$ lb., 90c; 1 lb., \$2.75, postpaid.

Long Orange 85 days. Good variety for deep sandy soil. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50.

Scarlet Horn 60 days. A small, early, stump-rooted variety of good flavor and quite coreless. The roots will average about 3 inches long. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50.

Oxheart or Guerande 72 days. Very short, thick and stubby. Very desirable for heavy clay soil, as it is easily harvested. Oz., 25c; $\frac{1}{4}$ lb., 75c; 1 lb., \$2.50, postpaid.

White Belgian 95 days. Large, white stock carrot. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

Yellow Belgian 95 days. Grows one-third out of the ground. Very large, long yellow stock Carrot. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25.

SPECIAL GROWERS RECOMMENDATIONS

Our cultural directions are the special recommendation of our growers who through actual experience know what is necessary for the successful growing of a crop, and give it to you for your guidance.

Sweet Corn

CULTURAL DIRECTIONS. One pint for 100 hills; about six quarts per acre. Early corn is planted in rows $2\frac{1}{2}$ to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for table eight or nine weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills 3 to 4 feet apart. It will be ready for use in from 10 to 12 weeks from date of planting.

It is recommended for the control of the corn ear worm to give four applications of dust or spray at five day intervals, beginning before the tassels show. If applied thoroughly to get the material into the growing whorl of the plant, it will control this pest. Twenty pounds of dust per acre is the proper rate.

Open - Pollinated

Golden Early Market 72 days. Earliest of the golden varieties and better than the Gill's Early Golden. Ears medium, 8- to 12-rowed of about the same size as Improved Bantam, with stalks $3\frac{1}{2}$ feet tall, medium tender, sweet and of good flavor. A popular and prolific variety for home and market garden. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Early Surprise 72 days. This corn is really a surprise. Matures in 72 days. It is a white-eared and white-cobbed corn of very good quality. Ears 7 to $7\frac{1}{2}$ inches long, growing on stalk about 5 feet tall. Planted at the same time, it is a week to 10 days earlier than Early White Cory. If you want to have the first Sweet Corn on the market, be sure to plant Early Surprise. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

★Golden "Sunshine" 74 days. A valuable yellow variety for the market grower or the private gardener. It is a cross between the Golden Bantam and Gill's Early Market, and combines the earliness and large size of ear of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to 10 days earlier than Golden Bantam, and has a much larger ear, the ears averaging $8\frac{1}{2}$ inches long, with 12 to 14 rows. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

★Golden Bantam 79 days. Hardy, early maturing, very dwarf. Cob is small but fills out nicely with large, deep cream-colored kernels, which turn yellow when ripe. No home gardens should be without this excellent corn. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Improved Golden Bantam 85 days. Superior to the original Golden Bantam in quality, and has a larger ear. It matures about the same time. Nearly all ears carry 12 rows of deep, rich, golden yellow kernels, set close upon the cob. It is a favorite with the market gardener. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Golden Evergreen 95 days. This new variety combines all the good qualities of Golden Bantam and Stowell's Evergreen. Has the bright golden color and tender kernels of Golden Bantam and the flavor and sweetness of Stowell's Evergreen. Ears much larger than Bantam; not quite as large as Evergreen, but much earlier. Stalks are full leaved and usually bear two well-developed ears. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Early Evergreen 90 days. Has all the merits of the "Stowell's" Evergreen. This is a white Corn. It is a splendid variety for the market gardener. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

★Stowell's Evergreen 90 days. The most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners. Ears are of good size, grain deep; tender and sugary. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Country Gentleman (White or Shoe Peg Corn). 90 days. An especially fine quality corn; without row formation. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

Golden Country Gentleman 90 days. The result of crossing Country Gentleman and Golden Bantam, is without a row formation and similar to Country Gentleman. Kernels deep and narrow. Lb., 35c, postpaid. Not prepaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.



★ Sunshine

Black Mexican 83 days. Reputed to be the sweetest and most delicious of all table Corn. Color is white when young, changing to bluish black in later stages. 1 lb., 35c, postpaid.

Hybrids

A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of corn or their combinations.

Marcross C13x6 67 days. This has proved a very good early market and home garden variety. Stalks are short but sturdy, highly resistant to Stewart's disease. Ears long, plump, abruptly tapered at the tips, 10- to 14-rowed with light cream-yellow, medium broad kernels of good quality. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

Golden Cross Bantam 85 days. Excellent for market gardens and well adapted for canners' use. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, with exceptionally broad, dark green leaves. Ears 10- to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

Ioana Hybrid (All-America Selection.) 87 days. A midseason yellow hybrid, highly resistant to both drought and wilt. Plants tall and sturdy with broad, numerous leaves. Ears $7\frac{1}{2}$ to 8 inches long, 12 to 14 rows, cylindrical, well filled with medium narrow light yellow kernels. An attractive and productive variety for either gardener or canner. Lb., 50c, postpaid. Not prepaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

POP CORN

Australian Hullless Dwarf growing; heavy yielder of attractive ears; peculiar form, being nearly as thick as long. Color pearly white. Entirely hulless, making it the tenderest of any Pop Corn when popped. 1 lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.75.

South American Yellow 110 days. Sunburst. Better adapted for Michigan climate. It matures about 2 weeks earlier than the true type South American yellow. Amber color, large size when popped, having a butter-colored tint. 1 lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.75.

Table and Pickling Cucumbers

CULTURAL DIRECTIONS. One ounce of seed to 50 hills; 2 pounds per acre. Cucumbers should not be planted until the ground is warm, about June 1st. For pickles, they may be planted as late as July 1st. They require a warm, rich, sandy soil. Plant in hills about 4 feet apart and about 8 seeds to the hill. When all danger from insects is past, thin to 3 or 4 of the strongest plants.

Cucumber Beetle—No. 10 Pyrocide Dust is the control measure to keep your Cucumbers clean. Apply promptly and grow your Cucumbers without any trouble. Circular free on request.

Grand Rapids Forcing (New Improved Strain.) 65 days. This seed was grown for us this past season under our own supervision by Mr. R. Yonker, who, by careful plant selection has developed a cucumber that is truly worthy of the name "Grand Rapids Forcing." It is of the white spine type with blunt ends, averaging 2½ to 3 inches in diameter and 10 to 12 inches long. An ideal forcing strain that will meet the demand of the greenhouse trade. 1 oz., \$1.25; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

Ace Hi 65 days. A white spine variety, 9 to 11 inches long, rounded at ends; dark green with trace of light green around blossom scar, small seed cavity, crisp flesh. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

Clark's Special 62 days. All-America selection. Fruits 9 to 10 inches long, rounded or abruptly tapered ends, dark green with medium green near tip ends; relatively free of striping, firm fleshed. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

Stays Green (Black Diamond). 60 days. It stays green. Splendid for shipping. A rich dark green color, from tip to tip, which is retained long after picking. 8 to 9 inches long, slightly tapered, full at both ends. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

★Improved "A & C" 68 days. The vigorous growing, disease resistant vines produce an abundance of uniform, exceedingly dark green Cucumbers, averaging 10 inches long. The fruits are of uniform diameter from stem to blossom end, are rather slim, averaging 1¼ to 1½ inches in diameter, without any bulge in the center, and with practically no taper at the ends. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

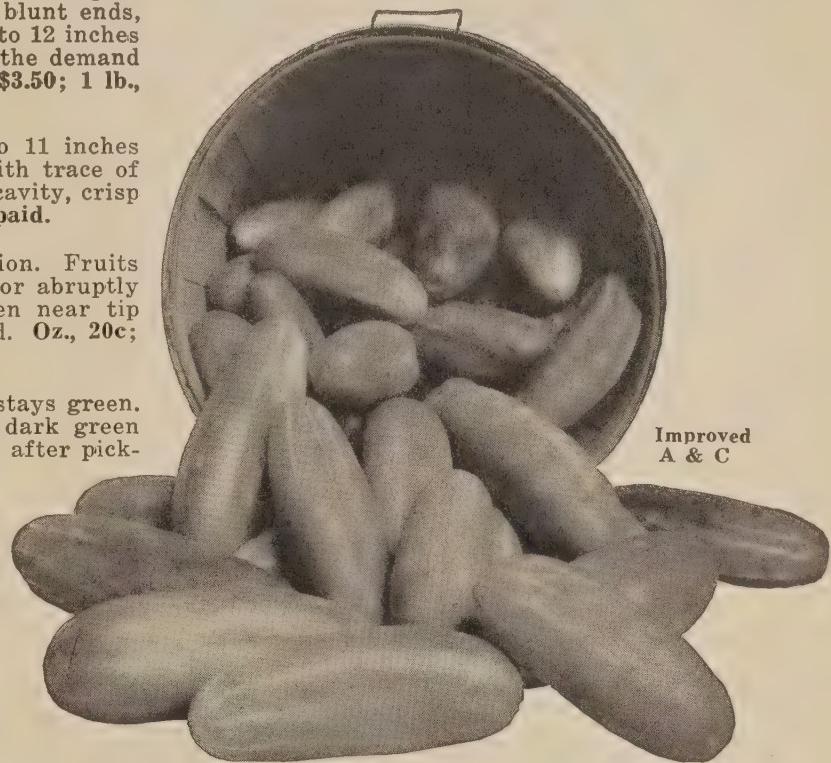
Chicago Pickling, or Westerfield's 58 days. Early, heavy yielder. A very prolific variety combining all the qualities desired by those who raise Cucumbers. Fruits are of uniform size and good color. Used almost exclusively by all large pickling houses. Ready for market in 58 days. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

Improved Long Green 68 days. A standard late, well known table sort. 12 to 14 inches long, slender, more or less warty, tapering towards the stem end, color dark green, flesh white and firm. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

Early Fortune 58 days. One of the most productive sorts now grown. Fruit symmetrical, about nine inches in length, round and beautiful dark green in color, which does not fade. Flesh very brittle and crisp, with small seed cavity. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

White Spine (Improved.) 58 days. A very fine, early strain. Fruit very rich, dark green, symmetrical, thick and nearly square ended, vigorous and productive. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

Straight-8 62 days. This outstanding variety produces symmetrical cylindrical fruits about 8 inches in length, and about 1½ inches in diameter. The fruits are well rounded at the ends, and when in condition for use are deep green and free from objectionable striping or tipping. This is an ideal shipping variety, also equally desirable for the home and market gardener. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.



Longfellow Cucumber 72 days. An excellent long, slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. An ideal type for the private garden or as a straight pack variety for shipment to market. 12 to 14 inches long by 2½ inches in diameter. Fairly early, a good healthy grower; very productive. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

Davis' Perfect 58 days. One of the products of our Eugene Davis, produced by crossing the White Spine variety with a long English forcing cucumber. Davis' Perfect is one of the most prolific sorts. The fruit is long, slim, and holds its color till nearly ripe. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

Kale or Borecole

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow from August 15th to October in rows 18 inches apart, and they will yield greens during fall and winter. They are improved by freezing.

Dwarf Curled Scotch 110 days. A handsome, very finely curled, dwarf, spreading variety, foliage long and an attractive bright green; very hardy. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

Tall Curled Scotch Is again reported to be a crop failure, but some may become available, so ask about it.

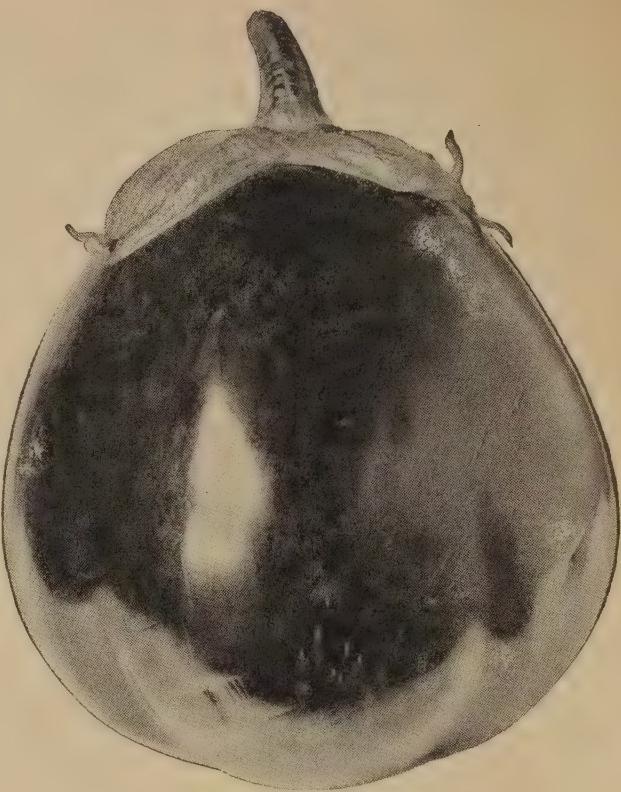
Siberian 65 days. A vigorous growing variety of low spreading habit. Large, coarse, grayish green leaves which are slightly curled at the edges. Extremely hardy. Extensively grown for greens. Oz., 30c; ¼ lb., 95c; 1 lb., \$3.00, postpaid.

Eggplant

CULTURAL DIRECTIONS. One ounce to 1000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March, transplant about June 1st, in rows about three feet apart and two feet apart in the row. Eggplant requires a rich soil, free from disease and rotation of crops is recommended.

Black Beauty 80 days. Early and productive. Fruit large and of a rich glossy black color. Oz., 50c; $\frac{1}{4}$ lb., \$1.60; 1 lb., \$5.50, postpaid.

New York Purple 80 days. A favorite market variety. Fruits larger than the Black Beauty. The plant is large, spreading and spineless, producing 4 to 6 large, oval fruits of dark purple color. Oz., 50c; $\frac{1}{4}$ lb., \$1.60; 1 lb., \$5.50, postpaid.



Black Beauty Eggplant

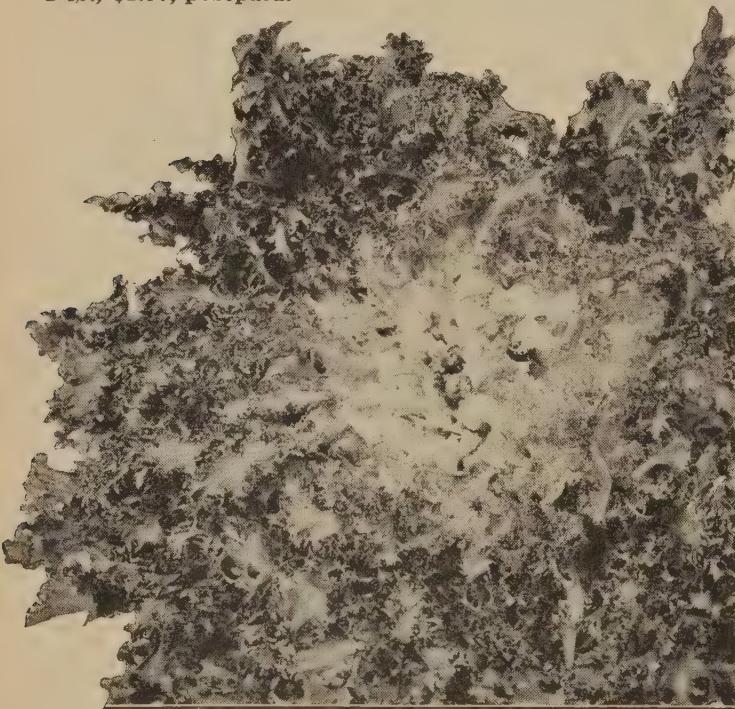
Endive

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow in rows about 15 inches apart and thin to one foot apart in the row. Sow seed for fall crop in June or July. When nearly full grown, tie outer leaves together bringing them up over the head for blanching. A well balanced fertilizer is recommended.

Long Green Curled 95 days. The most hardy and vigorous sort, has very curly leaves, the mid-rib being white. After blanching, the leaves make a delicious and appetizing salad. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Moss Curled 95 days. Grows more compact than the green curled and the medium green leaves are finer cut, blanches creamy white. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Broad-Leaved Batavian (Escarolle). 90 days. One of the best varieties for salads; leaves of upright growth, broad, more or less twisted and waved, bright deep green, with a nearly white midrib. Inner leaves form a fair head which blanches a creamy white. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.



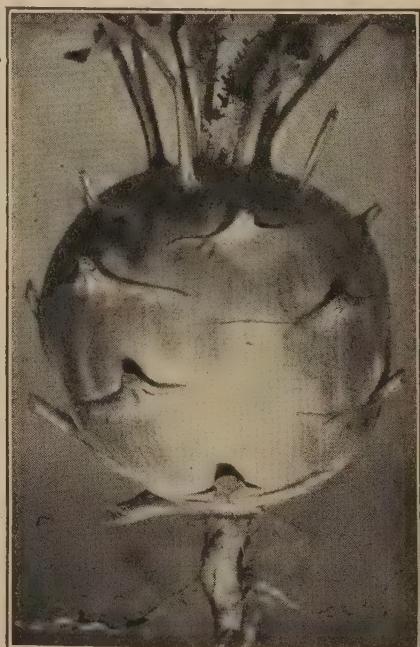
CULTURAL DIRECTIONS. One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for fall use. Should be used when young and tender.

Early White Vienna 60 days. Very early, small tops, can be planted close together; best for forcing, or field culture. Oz., 40c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

Leek

American Flag 150 days. Stem about 10 inches long by 2 inches thick. A strong, vigorous plant with mild flavor. One of the best sorts for the market garden. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Elephant (Monstrous Carentan). 150 days. Large stems 6 to 8 inches long, 2 to 3 inches thick. Leaves very dark green, hardy, prolific, for fall and early winter use. Oz., 80c; $\frac{1}{4}$ lb., \$2.50; 1 lb., \$8.00, postpaid.



White Vienna Kohlrabi

Cress or Pepper Grass

CULTURAL DIRECTIONS. Sow early in the spring in rich, well prepared soil, in rows about fifteen inches apart. Thin to four inches apart in the row.

Extra Curled (Pepper Grass). A small, curled plant having a fine pungent flavor and used as a salad. Should be sown thickly and frequently, covering very lightly as it soon runs to seed. May be cut several times. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Collards

True Georgia 75 days. Plant 2 to 3 ft. high, forming a cluster of tender, undulated leaves at the top of its rather long stem; used as greens. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Leaf Lettuce

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix pulverized hen manure well with the soil and sow seed very early in the spring. For Leaf Lettuce, sow in rows twelve inches apart and do not thin until plants are big enough to use. Head Lettuce should be sown in rows twelve inches apart and thinned to eight inches apart in the row.

A fertilizer high in nitrogen and phosphate is recommended, especially for sandy soils.

During warm weather, germination may be greatly aided in firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

★ Grand Rapids Forcing, Washington Strain

45 days. This splendid strain is one of the favorite strains being used by all of the larger greenhouse growers who recommend it as a superior Lettuce. Mr. R. Yonker, one of our leading greenhouse growers, by careful plant selection, has kept it up to its original purity. It is absolutely true to type. Color a light green; heads very heavy; leaf crisp, tender and curly; quality the best. We grow our stock seed in the greenhouse and send to one of the best seed growers on the Coast to grow the seed crop. Oz., 25c; $\frac{1}{4}$ lb., 70c; 1 lb., \$2.25, postpaid.

Grand Rapids Tip-Burn Resistant 45 days. Color light green, somewhat like the Washington strain, being used for greenhouse growing where tip-burn is visible. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Early Curled Simpson 40 days. An early loose leaf variety. One of the best sorts for the home garden. Oz., 15c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.75, postpaid.

★Black-Seeded Simpson 40 days. One of the best loose leaf varieties for the home garden or for the market garden, for outdoor sowing. Can be grown all through the season. Very tender. Oz., 15c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.75, postpaid.

Prizehead 45 days. A crisp and tender loose-leaved, non-heading sort, color light brown on a medium green base, quality good. Oz., 15c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.75, postpaid.

Chicken Tall, leafy, prolific and hardy type, used for rabbit and poultry feed. Dark green. Oz., 15c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.75, postpaid.



Grand Rapids Forcing, Washington Strain

Bibb Lettuce A waxy-headed variety with very deep green outer leaves, bleaching to a rich yellowish green inside; heads medium small size, usually crisp and tender and of distinct flavor. Each head makes an individual serving. Oz., 30c; $\frac{1}{4}$ lb., \$1.00; 1 lb., \$3.50, postpaid.

★Imperial No. 152 82 days. New heading variety that is outstanding over other varieties. Resistant to brown blight, and well adapted for early fall planting. The heads are medium sized, hard, and attractive. Oz., 30c; $\frac{1}{4}$ lb., \$1.00; 1 lb., \$3.50, postpaid.

Imperial 44 82 days. This is somewhat similar to Imperial 152, being a hybrid from this popular variety. It has very long well-folded leaves and produces hard well-formed heads under ideal circumstances. Oz., 30c; $\frac{1}{4}$ lb., \$1.00; 1 lb., \$3.50, postpaid.

New York or Wonderful 75 days. A large, late globular heading variety, leaves broad, of thick texture, fairly blistered and crumpled, and the borders frilled; color dark green, quality good. Known in California and the West as "Los Angeles" and shipped to eastern markets under the misleading name of "Iceberg." For an all-season variety it stands unrivaled. Oz., 30c; $\frac{1}{4}$ lb., \$1.00; 1 lb., \$3.50, postpaid.

Romaine or Early White Self-Folding Lettuce 66 days. We consider this the very best strain of the Cos variety. Very uniform in type, and forms a compact, firm head. Color dark green outside and beautifully blanched inside. Very crisp; sweet. Oz., 25c; $\frac{1}{4}$ lb., 85c; 1 lb., \$2.50, postpaid.

READ Roy E. Biles' "GARDEN MAGIC"

320 pages, 17 full color illustrations, hundreds of line drawings; practical, durable binding and gilt stamped; size $8 \times 10 \frac{3}{4}$ inches. \$3.00, postpaid.

ALSO the Modern Family Garden Book, 160 pages, fully illustrated; size $7 \times 10 \frac{1}{2}$ inches. \$1.00, postpaid.
Plus 3% Michigan Sales Tax.

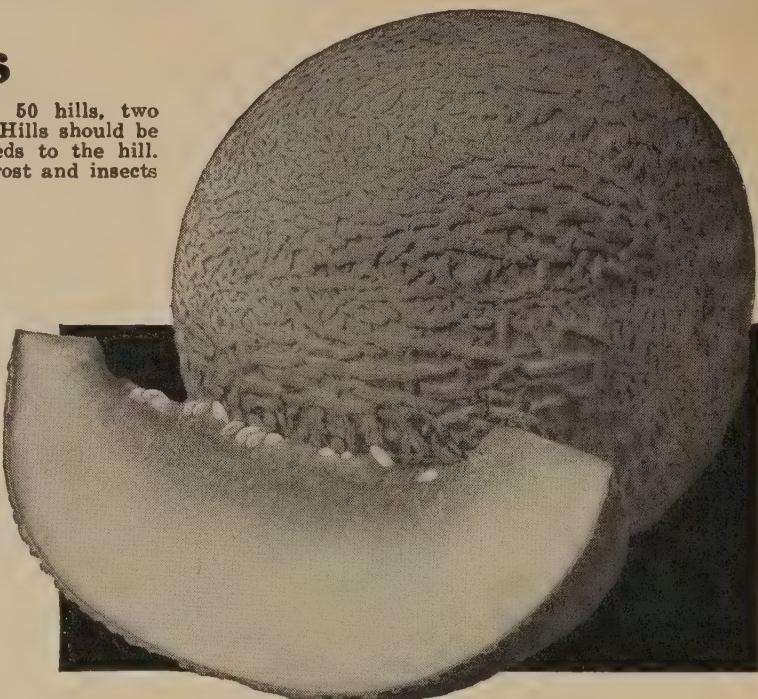
Muskmelons

CULTURAL DIRECTIONS. One ounce will plant 50 hills, two pounds an acre. Melons do best in a rich, sandy soil. Hills should be from four to six feet apart. Plant ten to twelve seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects past, thin to four good plants to the hill.

★Hearts of Gold 88 days. A splendid small, round, 6 inches long and 5½ inches in diameter, weighing 3 to 3½ lbs., with a tendency to heart shape, lightly ribbed and covered with a fine gray netting; flesh very thick, deep salmon color, and of high quality; a good shipping Melon. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

★Honey Rock 80 days. One of the most prolific varieties grown. The fruit is round, slightly flattened at the ends, 5 to 6 inches in diameter, weighing 3 to 4 lbs., and distinctly netted. The flesh is soft pink with a greenish tint. The rind is hard and the flesh so firm that it is an excellent shipper. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

Schoon's Hard Shell 90 days. Thick, oval, prominent ribbing with abundant coarse netting, skin gray-green becoming yellow at maturity; flesh very thick, deep salmon-orange, well flavored, excellent quality. 6½ to 7½ inches diameter, weighing 5 to 7 lbs. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

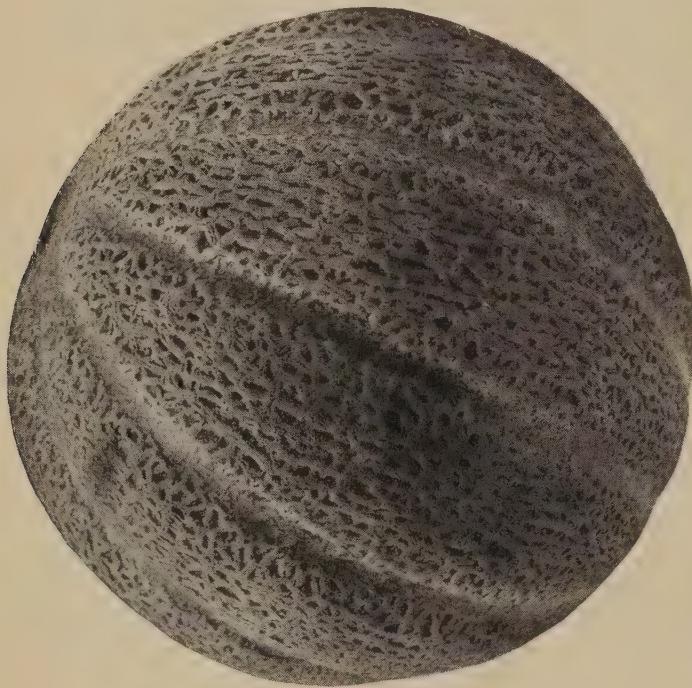


Honey Rock Muskmelon

Extra Early Osage 87 days. A very fine Melon of the Osage type. Seed cavity very small. Flesh deep, rich yellow color, very sweet and delicious. 5½ to 6 inches in diameter, weighing 4½ to 5 lbs. At least one week earlier than Osage Melon, smaller, vine prolific. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

Golden Osage 90 days. An improved variety of the Osage, oval to round in shape, similar to Honey Rock only larger in size. 6 to 6½ inches in diameter, weighing 5 to 6 lbs. It is well netted, the flesh is thick golden throughout, excellent flavor, with a small seed cavity. Popular with the melon growers everywhere. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

Osage 92 days. A rather large, oval Melon of very superior quality, 6 to 6½ inches in diameter, weighing 5 to 6 lbs. Fruit dark green, slightly ribbed, and well covered with shallow gray netting; flesh rich orange-salmon, exceedingly thick with a small seed cavity. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.



Hearts of Gold

Pride of Wisconsin (Market King). 85 days. Similar in size and shape to Honey Rock. Oval in shape with tough heavily netted rind. 6 inches long and 5½ inches in diameter, weighing 3½ to 4½ lbs. Flesh deep orange and very thick. Sweet and of excellent quality. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.

Hale's Best Muskmelon 82 days. Has become one of the most popular melons for the home and market garden trade. It is fairly early, a good shipper, oval in shape, averaging 5 inches in diameter and 7 to 9 inches long with heavy netting, and fairly prominent ribs. The flesh is a rich deep salmon color with a very fine flavor. Oz., 25c; ¼ lb., 70c; 1 lb., \$2.25, postpaid.



Hale's Best

NO. 10 PYROCIDE DUST is the control measure against beetles and other insects. Apply promptly and grow your melons without any trouble. Circular free on request.

Selected Varieties of Watermelon

CULTURAL DIRECTIONS. One ounce to 30 hills, about four pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.

Cole's Early 75 days. The best extremely early variety; fruits medium size, broad oval; weighing 10 to 12 lbs., dark green stripes alternate with lighter; rind brittle, flesh bright red of good quality, seeds blackish. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Tom Watson 92 days. Produces Melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 35 to 40 lbs. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

★ Kleckley's Sweet or Monte Cristo

85 days. One of the sweetest melons on the market; medium early, long, averaging 18 to 20 inches, slightly tapering to the stem end, weighing 30 to 40 lbs. Rind very dark green, flesh very bright red and ripens nearly to the rind. Too tender for a shipping Melon, but excellent for market and home garden. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

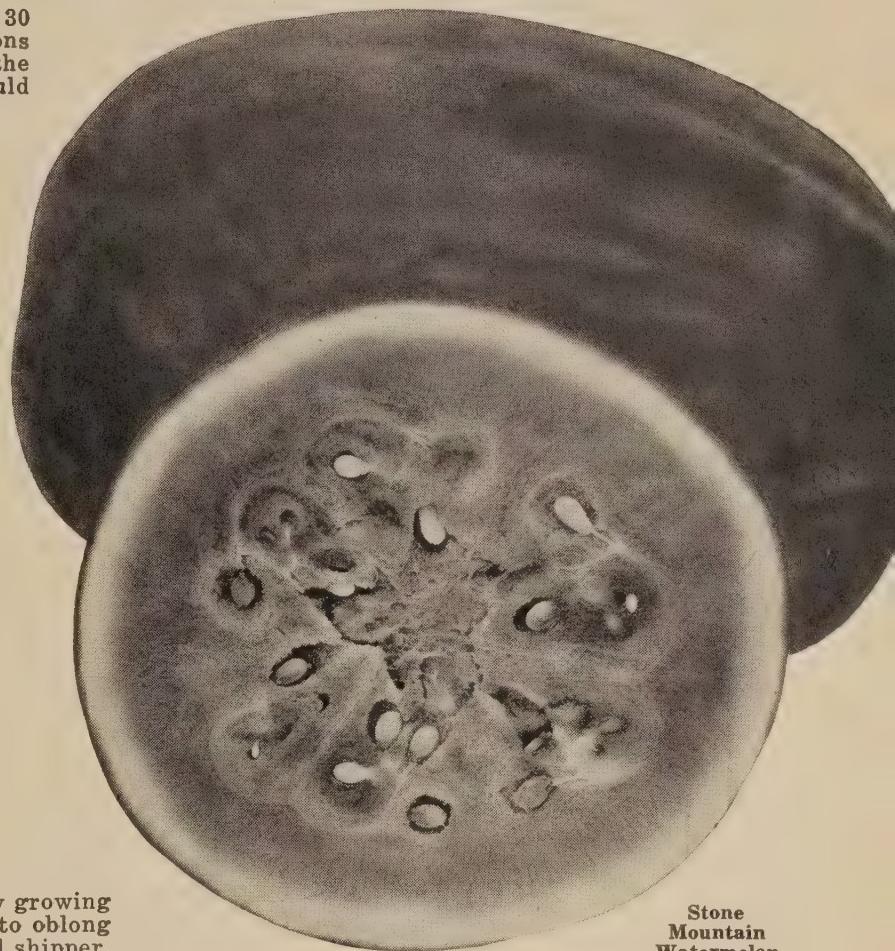
Peerless or Ice Cream 85 days. An old standby. Medium early; fruit oblong, weighing 18 to 20 lbs.; rind light green, mottled and veined; flesh scarlet, solid to center, sweet, melting and delicious. Not a good shipper. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Sweetheart 85 days. A medium early variety growing to a large size; a heavy, round to oblong form with rather thick, tough rind and a good shipper, weighing 20 to 25 lbs. Color very light green, flesh bright red, with black seeds. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Citron, Red Seeded 90 days. The old well known red-seeded preserving Melon. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Stone Mountain 90 days. This variety combines extra large size with earliness. It is nearly round in shape, pleasingly green in color and unexcelled for sweetness and juiciness. Fruits weigh from 35 to 40 pounds in the South, and the 95 days required for maturity make it easily possible to grow correspondingly large fruits in the North. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Irish Grey 95 days. Especially valuable for distant shipping. Fruits large oblong; uniform light grayish green, rind extremely hard and rough; flesh bright red, of good quality, weighing around 35 lbs. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.



Stone
Mountain
Watermelon

Dixie Queen 85 days. A new variety, for the market and the home garden. Excellent quality, fruit nearly round, with light and dark green stripes, growing to a good size. Rind thin, but tough—flesh bright scarlet, solid, of fine texture, weighing around 30 lbs. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Mustard

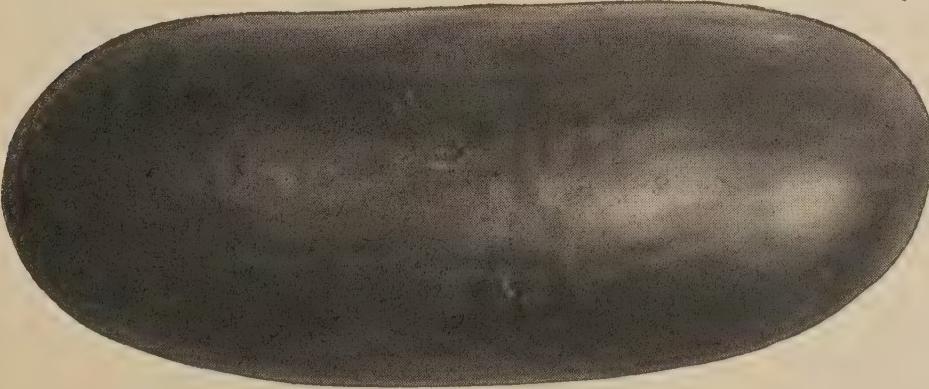
Southern Giant Curled 30 days. Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the edges. Oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25, postpaid.

Okra or Gumbo

White Velvet 60 days. Plants 3 $\frac{1}{2}$ feet high, pods white, long, smooth and tender; early and productive. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Perkins Mammoth Long Pod

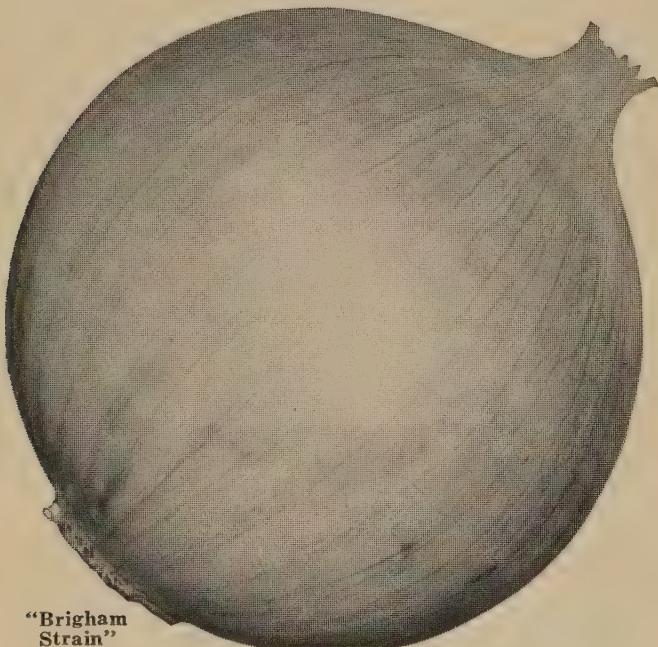
56 days. For home and market garden. Plants 4 to 5 feet tall, pods dark green, fleshy, tender, becoming 7 to 8 inches long. Distinctly ribbed and tapered. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



Kleckley's Sweet or Monte Cristo

Choice Onion Seed

CULTURAL DIRECTIONS. One ounce to 100 feet of drill; about four pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 2-8-16 fertilizer. Drill in rows about a foot apart.



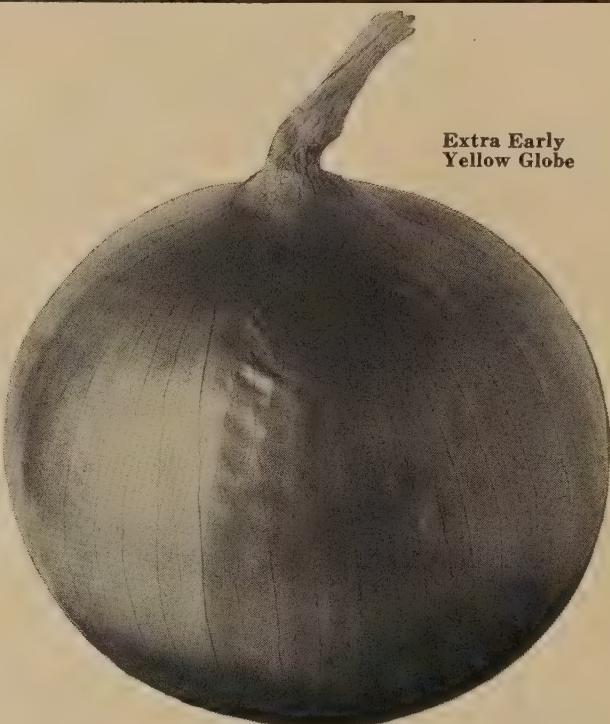
"Brigham Strain"

★ "BRIGHAM STRAIN" The Long Keeping Onion

109 days. The seed stock for this fine strain of Onion seed is grown under our own supervision. The bulbs used are very carefully selected to insure our users that this variety is pure. Bulbs are selected for type and quality, and produce larger Onions with a vigorous growth. Onions grown from our seed stock are very good keepers, globe shaped with a rich golden color. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.00, postpaid. Special prices quoted on larger quantities.

★ **Southport Yellow Globe** 110 days. This Onion is our yellow market variety. It is very uniform as to size. A good yielder, and recommended for its keeping qualities in storage. A handsome yellow globe variety. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.00, postpaid.

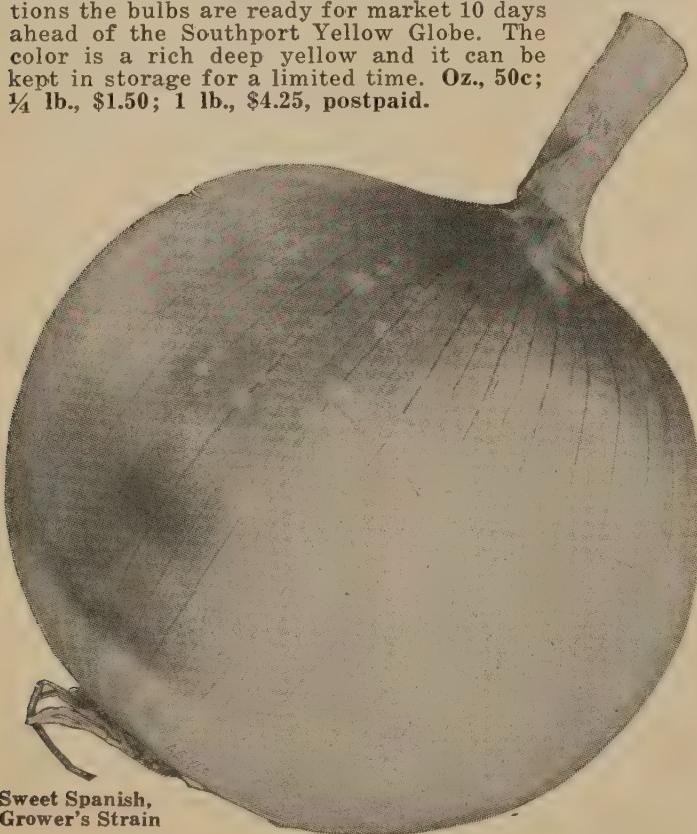
We will be pleased to quote you special prices on larger quantities. Specify the amount you want and let us quote you.



Extra Early
Yellow Globe

Buckskin Yellow Globe 109 days. Used on muck soils. An exceptionally good yielder that produces very hard bulbs with a tight skin. A splendid keeper. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.25, postpaid.

★ **Extra Early Yellow Globe** 98 days. Excellent semi-globe shaped and is a good yielder. It ripens well, and under normal conditions the bulbs are ready for market 10 days ahead of the Southport Yellow Globe. The color is a rich deep yellow and it can be kept in storage for a limited time. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.25, postpaid.



Sweet Spanish,
Grower's Strain

Sweet Spanish

Utah Sweet Spanish (110 days). Desirable because of its deep yellow color, excellent keeping qualities, thicker skin and uniformity in size. Bulbs are globe in shape at about $2\frac{1}{2}$ to 3 inches, when larger they assume a slightly flattened globe shape. Flesh white and of mild pleasing flavor. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Sweet Spanish, Grower's Strain 110 days. The largest yielder of the yellow onions, averaging 3 to 4 inches in diameter. The best and not susceptible to the attack of thrip. Good keeper and shipper. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

White Sweet Spanish 110 days. Similar to the original Sweet Spanish, except that it is white with glistening skin. Globe-shaped. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

★ This variety recommended by the Michigan State College.

ONION SEEDS—Continued

Ebenezer An excellent variety for producing sets of exceptional keeping qualities. Bulbs deep flat, of medium size; dark yellow, very firm with thick skin. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Prizetaker or Mammoth Yellow Spanish 105 days. Very large, and nearly round, light straw color, very mild and sweet. Late. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Yellow Globe Danvers 105 days. A very popular dependable variety. In an exceptional keeper. Oz., 50c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$4.25, postpaid.

★Southport White Globe 120 days. Same type as Southport Yellow Globe, with a thin delicate skin of pure paper whiteness, but two weeks earlier and exceedingly mild. It usually commands the highest price on the market. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

White Portugal or Silverskin 100 days. An early flat white Onion of mild flavor. Used mostly to grow sets. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Long Bunching (Heshiko) (American Grown). A new perennial bunching onion that does not form a bulb. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.



Southport White Globe

Chives

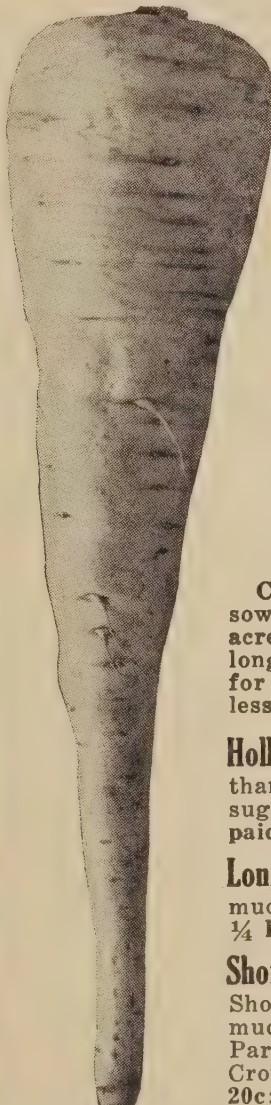
A hardy perennial of the onion type. Listed under "Herbs" on page 30. Pkt., 10c; oz., \$1.50; $\frac{1}{4}$ lb., \$4.50, postpaid.

**Onion Sets**

We can supply the Silverskin sets, Ebenezer or Japanese sets as well as Egyptian or Perennial Top Sets. Write for prices.



"Paramount" Moss-Curled Parsley



Hollow Crown Parsnip

Parsley

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows about 15 inches apart, and thin to four or five inches apart in the row. Parsley requires a rich soil.

Triple Curled or Moss Curled 85 days. (Paramount.) Plant handsome, beautifully curled and rapid grower. Will produce a large crop. Oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25, postpaid.

Hamburg Rooted 90 days. Grown for the root which resembles a Parsnip in shape and color. Foliage very much like plain Parsley. Oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25, postpaid.

Parsnips

CULTURAL DIRECTIONS. One ounce will sow 100 feet of drill; three to four pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly, thin as for Carrots. Seed does not germinate well unless conditions are just right.

Hollow Crown 130 days. Thick shoulder. This variety is more generally grown than any other sort; roots smooth, tender and sugary. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Long Smooth Dutch or Sugar 130 days. Roots very long, slim, much sweeter than the Hollow Crown. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Short Thick 100 days. A fine bunch vegetable, tops one-half size of Hollow Crown. Short, thick roots, free from strings, flavor much more delicate than other varieties of Parsnips. Fully a month earlier than Hollow Crown and reaches maturity in 100 days. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

All prices quoted herein are subject to available stocks on hand and subject to change without notice.

Garden Peas

CULTURAL DIRECTIONS. One quart will plant 100 feet of drill; about 56 pounds per acre. Peas do best on rich, sandy loam that has been well manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

Little Marvel or Dark Podded Sutton's Excelsior 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches, well filled with deliciously sweet peas. Vines about 15 inches in height. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

Little Gem 58 days. A second early, hardy variety. Prolific, bearing pods on both sides of the stalk, beginning near the ground. Pods medium length, round, and well filled to the end. Height of vine about 15 inches. Seed green, wrinkled. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

Alaska 57 days. A small, smooth blue Pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vines about two feet in height, pods small, but well filled. Can nearly all be harvested at one picking. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 15 lbs. (1 pk.), \$2.80; 60 lbs. (1 bu.), \$10.50.

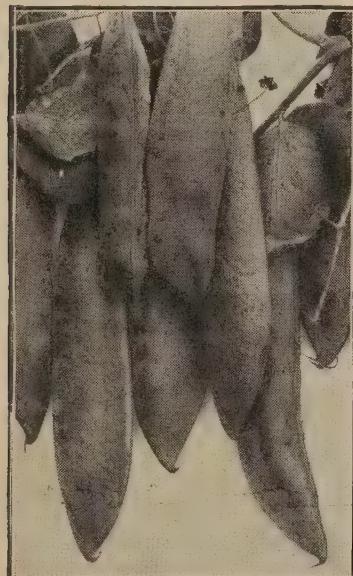
American Wonder 60 days. One of the earliest and sweetest wrinkled Peas. Vines very dwarf and productive. Pods small, but well filled. The most delicious Pea for the home garden. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

★Improved Laxtonian 62 days. The best of the Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches, broad, containing eight large peas of excellent quality. The best second early, big-podded sort. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

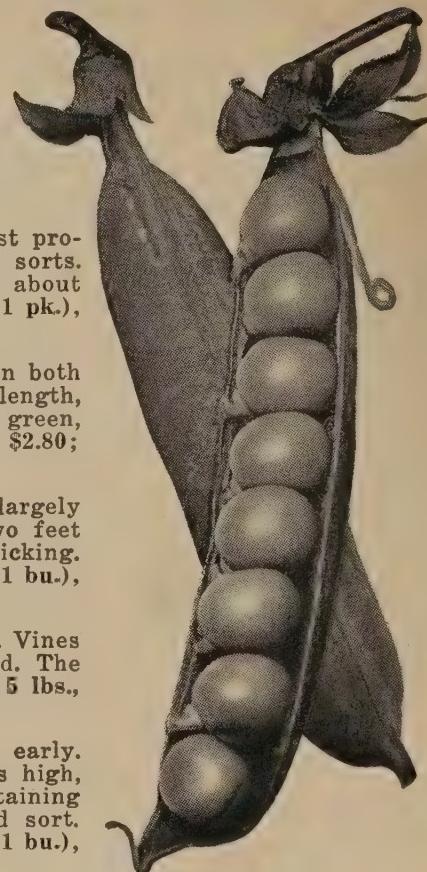
Champion of England 80 days. Vines 4 to 5 feet in height, productive. Pods 2 to 3 inches long, broad and well filled. Peas medium size, of unsurpassed sweetness. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

★World's Record 58 days. A new variety on the order of Gradus, being slightly earlier, more productive and true to a fixed type. Grows about 2 feet in height, with large, dark green pods nearly 4 inches in length, broad, pointed and always well filled with large, sweet peas of splendid quality. An excellent, profitable sort for home or market garden. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

★Thomas Laxton 62 days. One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunted and well filled with large peas. Peas wrinkled. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.



Little Marvel Peas



Improved Laxtonian
or Hundredfold

★Alderman 72 days. A little later than the Telephone. Vines about four feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Lb., 40c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

Telephone 72 days. A standard high quality, large-podded Pea, for main crop; productive; height 4½ feet. Vine and foliage strong and heavy, medium green. Pods 4½ inches long, medium green, straight, broad and pointed, well filled. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

Edible Pod Sugar Peas

The pods of the two varieties listed below are cooked with the peas. They have a high sugar content and make a delicious dish, and once tried, they will be regularly grown.

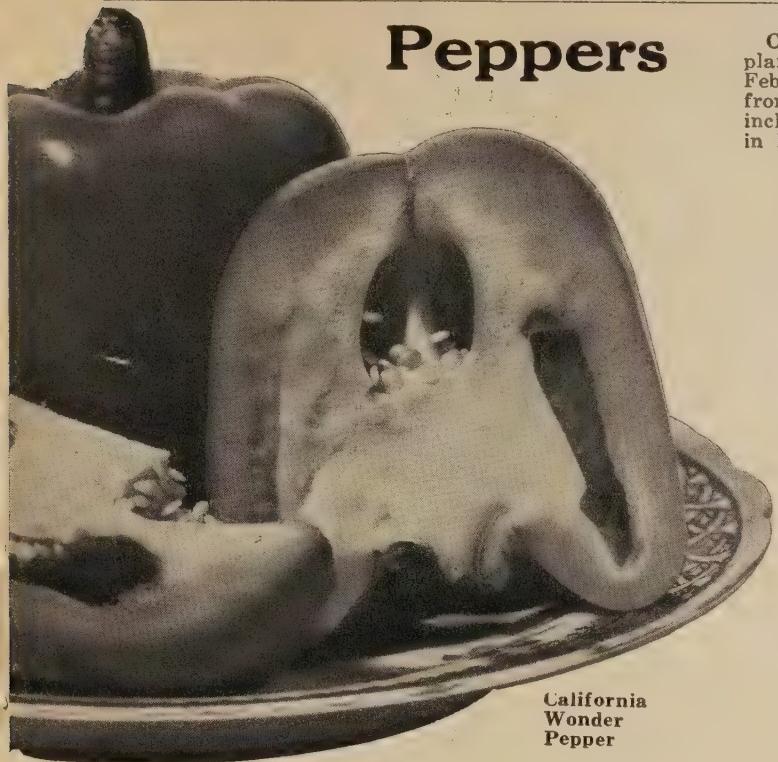
Dwarf Gray Sugar 62 days. A dwarf, edible pod variety. Vines about two feet high. Cook pods like string beans. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

Melting Sugar, or Edible Pod 70 days. A tall variety, bearing large, flat, brittle pods. These are sweet and are cut or broken and cooked like string beans. It is a delicious vegetable and should be better known and more generally used. Lb., 30c, postpaid. Not prepaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$2.80; 56 lbs. (1 bu.), \$10.50.

BE SURE TO INCLUDE
POSTAGE ON ALL QUAN-
TITIES MARKED "NOT
PREPAID." SEE RATES ON
PAGE 3.

INOCULATE ALL LEGUMES
WITH
NITRAGIN
The Original Legume Inoculator

Peppers



Bull Nose or Large Bell 55 days. Large, bell-shaped, thick-fleshed fruit. Good for Mango pickles. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

World Beater 70 days. The most prolific large Pepper. Fruit very large, about 5 inches long. Flesh thick, mild and sweet. Pepper tapering and of a bright ruby color when ripe and very attractive. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Ruby King 65 days. One of the most profitable and satisfactory varieties for the home or market garden; plants are early, productive and of dwarf compact, upright growth; fruits pendent, often 4 to 6 inches long by 3 to 4 inches thick, tapering and of a bright ruby-red color; flesh is thick, mild and sweet. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Red Chili 85 days. Small, red, cone-shaped. Very hot and prolific. Used for seasoning. Oz., 40c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

Neapolitan 60 days. A very early, medium large, prolific variety. Fruits upright in growth, three-lobed, yellowish green, becoming bright red, flesh extremely mild and sweet. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Pumpkins CULTURAL DIRECTIONS. One ounce of seed for 20 hills. About 3 pounds per acre. Usually grown in cornfields, but can be grown as a separate crop. Seed should be planted in hills 8 to 10 feet apart each way, after soil gets warm. Cultivate often until vines begin to run. Cut Pumpkins after leaves die, leaving three to four inches of stem attached to fruit. Store in a dry place, and do not bruise.

Connecticut Field 70 days. Generally used for planting in corn for stock feeding; also makes good pies. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75, postpaid.

King of the Mammoths 120 days. The giant among Pumpkins. Often grows two feet or more in diameter. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$1.75, postpaid.

★ Sugar Pie 108 days. Fruit small, round, flattened at the ends, and slightly ribbed. Skin and flesh deep orange-yellow. Flesh very thick and of high quality. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Winter Luxury 100 days. Round, medium in size, with a golden yellow skin closely netted like a netted muskmelon; sweet and finely flavored and an exceptionally good keeper. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Victory Pie 115 days. A large crook-necked sort. Skin green, striped yellow. Flesh yellow and of fine quality. Oz., 20c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

CULTURAL DIRECTIONS. One ounce will produce about 2000 plants; about 7000 plants for an acre. Sow seed in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about three feet apart and eighteen inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

California Wonder 72 days. Thickness of flesh alone, which is often $\frac{1}{8}$ of an inch, places this sweet pepper above all others. Vigorous growing plants, blocky fruit 5 inches long and 4 inches wide. When fully matured, it has a waxed appearance. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Oakview Wonder 63 days. An earlier and more productive strain of California Wonder. Fruits blocky, smooth, with thick, mild, sweet flesh. Plants shorter and stockier but fruits are set earlier and more abundantly. An outstanding strain unsurpassed for shipping and for the home and market garden. Oz., 70c; $\frac{1}{4}$ lb., \$2.20; 1 lb., \$7.00, postpaid.

Chinese Giant 80 days. Mammoth fruits 12 to 15 inches in circumference. Flesh thick, tender, mild and sweet. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Harris' Early Giant 63 days. The earliest and most prolific of all large Peppers. Is of dwarf, compact growth, bearing as many as 12 pendent fruits on a single plant. Fruit scarlet, measuring 5 inches long by $3\frac{1}{2}$ inches in diameter; three-lobed, mild and sweet. A profitable Pepper for the market. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

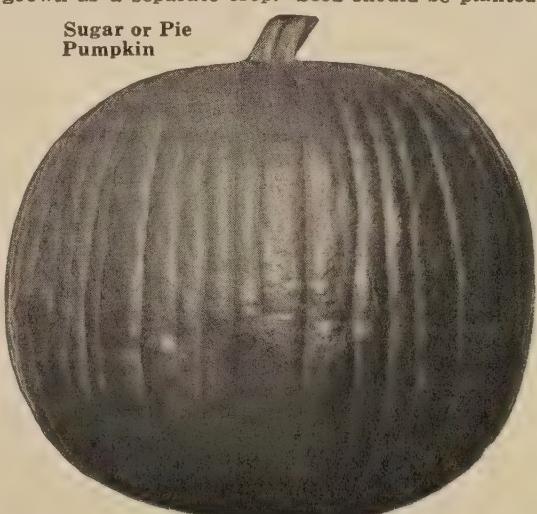
★ King of the North 64 days. A late introduction and a winner, similar in type to Ruby King, but decidedly earlier. The plant is of medium size and prolific. The fruit is long, moderately slender, tapering to three or four points. Oz., 45c; $\frac{1}{4}$ lb., \$1.50; 1 lb., \$5.00, postpaid.

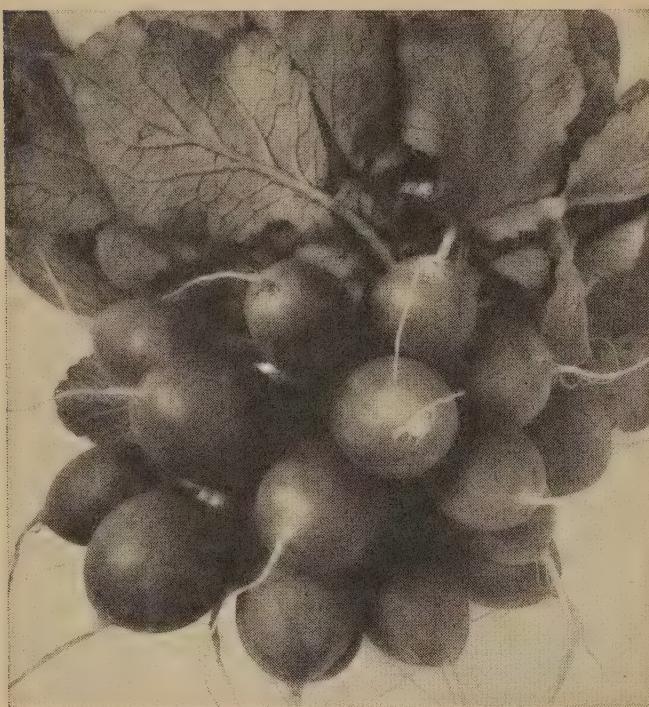
Pimento 73 days. A rather late, very thick-fleshed, heart-shaped, smooth, mild, crimson variety; much used for salads. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Long Red Cayenne 70 days. Pendent fruits about 5 inches long and $\frac{1}{4}$ inch in diameter at the base, often curved and twisted; bright red, hot and pungent. Oz., 50c; $\frac{1}{4}$ lb., \$1.75; 1 lb., \$6.00, postpaid.

Hungarian Yellow Wax (Hot.) 60 days. Very early. Desirable for home, market garden and canning. Plants small, heavily productive. Fruits 6 to 7 inches long, 2 inches thick, tapered, smooth, waxy light yellow becoming bright red. Flesh thick, pungent. Oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Sugar or Pie
Pumpkin





Grand Rapids Forcing Radish

CANADIAN CUSTOMERS

We will accept your order only on remittance payable in United States funds or its equal. Notice announcement on page 3.

★ Early Scarlet Globe 20 days. We have an exceptionally fine stock of this grand variety, which has been tested by having crops grown both in greenhouses and outdoors. Our new stock will not be sold until it is tested. It is one of

the earliest forcing radishes, and does equally as well for outdoor culture. Roots are globe-shaped, of fair size, not apt to be pithy, small tops, crisp and tender, color bright scarlet. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid. Not prepaid, 10 lbs. at 85c per lb. 25 lbs. or more at 75c per lb.

Cavalier 25 days. A highly colored and attractive variety for all purposes and especially for shipping. Tops small, roots oblong-globe, very firm and of bright red color. Especially adapted for growing on muck soils. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid. Not prepaid, 10 lbs., 85c per lb. 25 lbs. or more at 75c per lb.

★ Icicle (Short Top.) 25 days. One of the earliest long varieties, white throughout. Very crisp and tender. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.20, postpaid.

French Breakfast 20 days. Of oblong shape, small, quick growing, color rose-scarlet, with small white tip. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Cooper's Sparkler 20 days. White tip, quite similar to Scarlet Turnip White Tip as to size and time of maturity, only the Sparkler is more round or ball-shaped, and the white extends farther up the radish, making a more attractive bulb. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

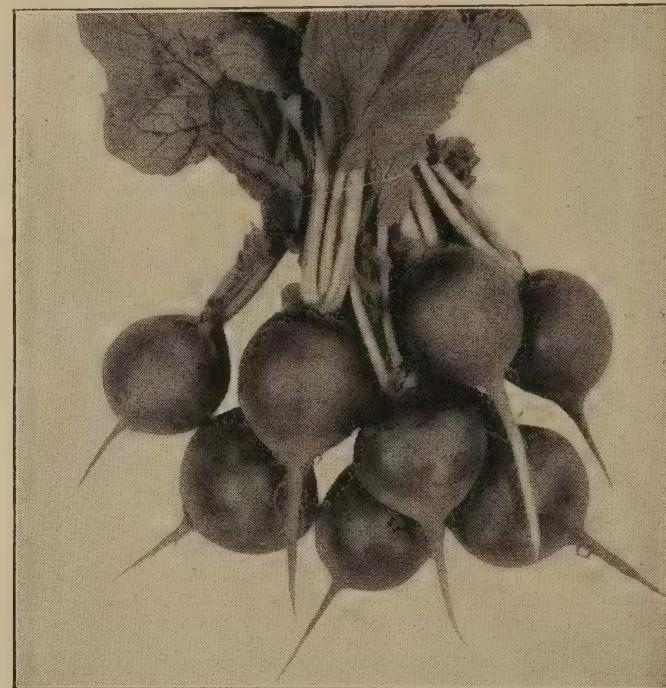
Scarlet Turnip White Tipped 25 days. Round, deep scarlet, shading to a white tip at the bottom. Very early. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Crimson Giant 28 days. Larger than any other extra early variety but does not become pithy. Crimson-carmine, turnip-shaped, flesh firm, crisp and tender. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

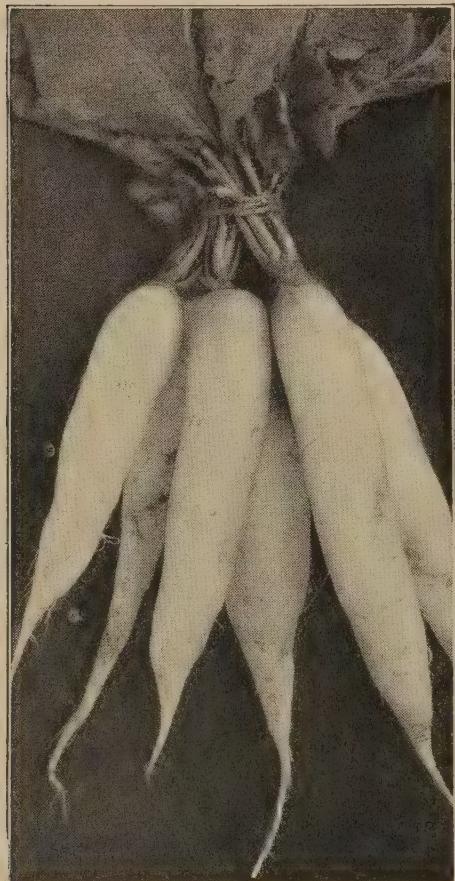
★ Grand Rapids Forcing 20 days. New, improved. The best greenhouse variety and the earliest of the Scarlet Globe type, but superior in every way for greenhouse forcing. When properly grown it is the most handsome and best forcing sort with the shortest top and the Radishes are ready to pull before you realize it on this account. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid; 10-lb. lot, 85c per lb., not postpaid. 25 lbs. or more at 75c per lb.

The Grand Rapids Forcing Varieties are nationally known. Turn to the others: Lettuce is described on page 15; Tomato on page 26; and Cucumber on page 13; also the inside front cover.

Radishes prefer a deep, rich, sandy soil and an application of a well balanced fertilizer.



Early Scarlet Globe



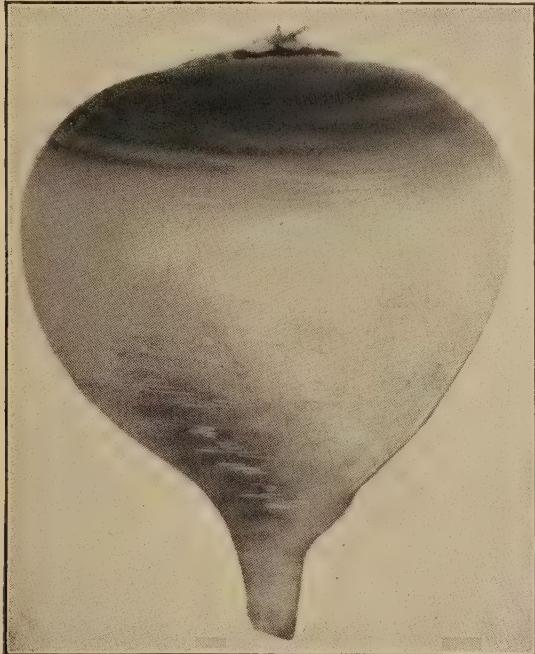
White Icicle

The Best Winter Radishes

White Winter (Celestial.) 60 days. Roots six to eight inches long, thick, cylindrical and smooth, with a beautiful white skin and flesh, the whitest and least pungent of the winter radishes. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Chinese Rose Winter 52 days. Roots four or five inches long, blunt at both ends, about two inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best winter sorts. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

Long Black Spanish 56 days. One of the latest and hardiest varieties for winter use; roots 8 to 9 inches long, 2 to 3 inches in diameter, and nearly black in color. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



American Purple Top Rutabaga

Round Black Spanish 56 days. Round, 3 to 4 inches in diameter. Skin almost black; flesh white, crisp and pungent. Oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

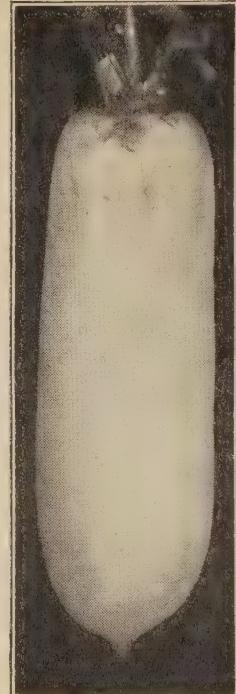
Rutabagas

Mature in 100 days.

American Purple Top A hardy, productive variety with small neck; roots large, globe-shaped, with small tap roots, bright yellow in color with purple top, solid, tender and sweet. Our strain is the best available. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Long Island, Improved Grows large, top-shaped; purple top, flesh yellow. Used for stock feeding or table use where a large Rutabaga is wanted. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Canadian Gem Golden yellow variety, globular shaped with small tap root. A very solid variety, tender and sweet. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

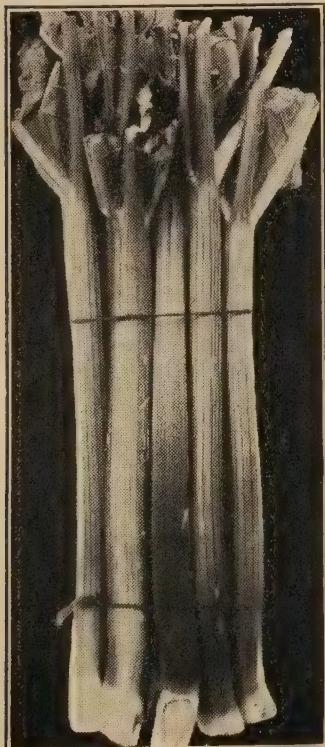


Celestial White Winter

Salsify or Vegetable Oyster

CULTURAL DIRECTIONS. One ounce to 75 feet of drill; 5 or 6 pounds to the acre. Sow the seed early in the spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. Like parsnips, they may be left in the ground all winter and dug as soon as the ground is thawed. Salsify prefers a deep, rich sandy soil.

Mammoth Sandwich Island 150 days. A splendid variety producing large, thick, tapering white roots, very uniform, mild and delicious in flavor. A popular sort with the market gardeners. Oz., 40c; $\frac{1}{4}$ lb., \$1.25; 1 lb., \$4.50, postpaid.



Rhubarb



REMEMBER!

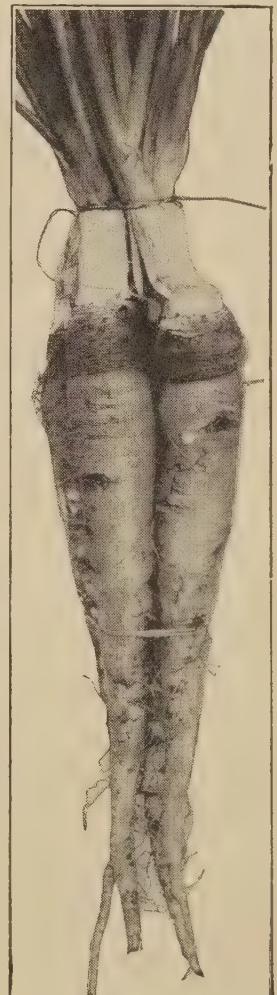
FEED EVERYTHING
YOU GROW!

As seedsmen we are interested in having you enjoy success, and it is advantageous to feed all vegetables with VIGORO, the complete plant food. It helps to increase yields, hastens maturity, improves flavor and assures you a harvest of vegetables rich in minerals. Four pounds feeds 100 square feet of your garden.



A Product of Swift & Company

All prices quoted herein are subject to change without notice.



Salsify

Spinach Improved Varieties

CULTURAL DIRECTIONS. One ounce to 100 feet of drill; eight to ten pounds per acre. Sow early for spring crop; in August for fall use; and if sown from the middle to last of September, and protected during the winter with a light covering of straw, it will be ready for use very early in the spring.

A fertilizer high in nitrogen and phosphate is recommended, especially for sandy soils.

During warm weather, germination may be greatly aided by firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

★ Long Standing Bloomsdale 42 days. It is early and hardy and a decided improvement on the old strain. Will stand ten to fourteen days before bolting to seed; has a heavier leaf texture, more crumpled or savoyed, and will also resist the heat much better. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 70c, postpaid. Not prepaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

Round Summer Thick Leaved 45 days. An old standard. Grand Rapids growers use this variety very largely for main crop for spring, summer and fall. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.



Winter Savoy Blight Resistant

Giant Nobel 45 days. Similar to Thick Leaf. An erect, vigorous growing, long standing Spinach, slow to run to seed. Leaves large, unusually broad, firm and thick, with a rounded top. Smooth, medium green in color and the largest of any Spinach. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

Viking 45 days. This new variety may well be described as a dark green Nobel. Excellent for market gardens and canning. Plant large, spreading, vigorous, thick and dark green. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

Heavy Pack 48 days. This is a good strain of Viking. Plants are strong and vigorous with large medium green, slightly crumpled, thick leaves on short stalks. Color is intermediate between Nobel and King of Denmark. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

Write for Special Prices
in Larger Quantities

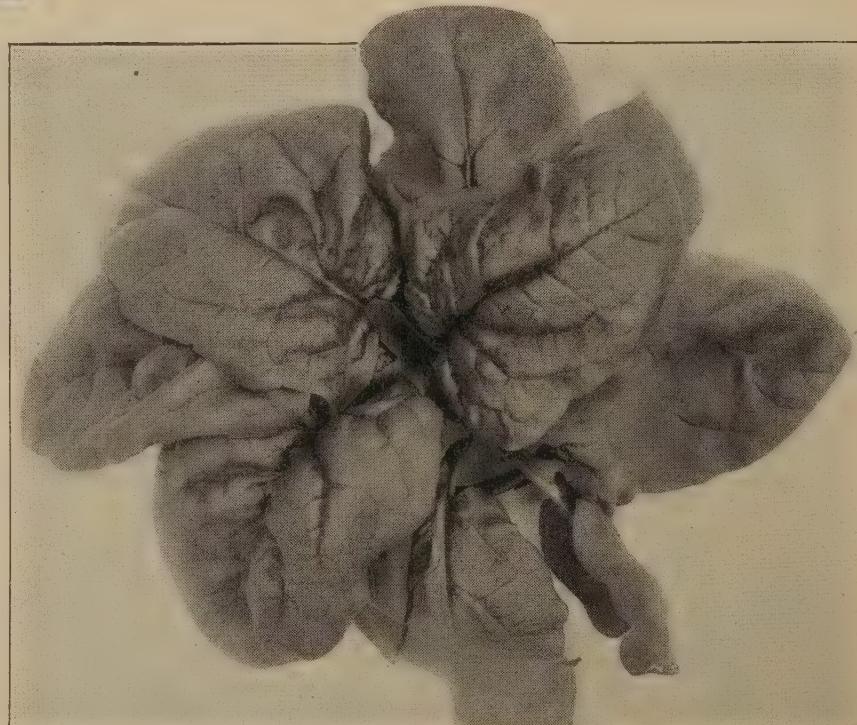
Long Standing
Bloomsdale



★ King of Denmark 48 days. A standard variety for market gardeners, for spring planting. It will stand longer than any other variety before going to seed. Leaves large, rounded, and somewhat blistered. Color very deep green. Heavy yielder and excellent quality. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid. Not prepaid, 10 lbs., \$6.00; 25 lbs. or more, 55c per lb.

Virginia Savoy Blight-Resistant Spinach 40 days. Virginia Savoy is characterized by the large leaves and general Flanders type of growth. The low-growing, wide-spreading habit makes it most desirable for winter Spinach. Plants of this type attain a very large size in late fall and carry well into early spring. A single plant often weighs more than a pound. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 70c, postpaid. Not prepaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

New Zealand 60 days. Entirely distinct from the other varieties. Plant tall and spreading, leaves medium green, rather small and pointed. Prickly seeded. Oz., 20c; $\frac{1}{4}$ lb., 65c; 1 lb., \$2.25, postpaid.



Giant Nobel

Be sure to include postage on all quantities marked "Not Prepaid." See rates on page 3.

Squash

CULTURAL DIRECTIONS. For Summer Squash, one ounce to 25 hills; two to three pounds per acre. For Winter Squash, one ounce to ten hills; about three pounds per acre. After danger of frost is past, plant eight to ten seeds to the hill for Summer sorts, about four feet apart, the last of May; and Winter varieties in hills about eight feet apart, from the middle of June to July first. Do not bruise or break the stems of Winter Squash when gathering. Store in a cool, dry place.

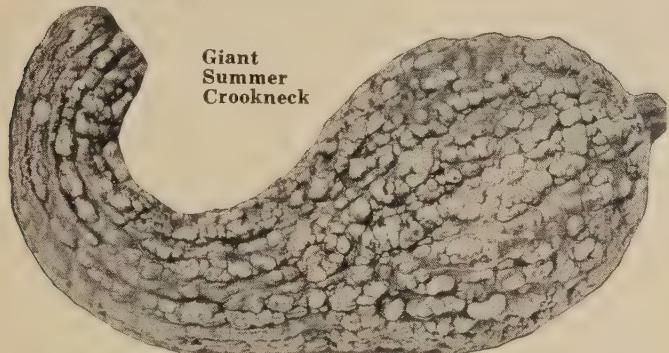
Early Prolific Straightneck 50 days. A high yielding summer squash. Fruits straight, smooth, and of delicate creamy color. Will grow 12 to 14 inches long but can be eaten when smaller. Quality unsurpassed. Oz., 15c; $\frac{1}{4}$ lb., 50c; 1 lb., \$1.50, postpaid.

Giant Summer Crookneck 55 days. The largest and one of the earliest summer varieties; fruits often 2 to $2\frac{1}{2}$ feet long; very warty and deep orange in color. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Golden Summer Crookneck 55 days. A standard early squash; fruits about a foot long, moderately warted and of a bright yellow color. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Banana 105 days. A prolific, oblong variety $2\frac{1}{2}$ feet in length by 6 inches in diameter, having a grey-green shell. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Banana, Pink Similar to the regular Banana, but exterior deep pink. Fruits average 15 inches long and $6\frac{1}{2}$ inches in diameter, straight, pointed at the blossom end, rounded at the stem end. Flesh thick, with small seed cavity. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

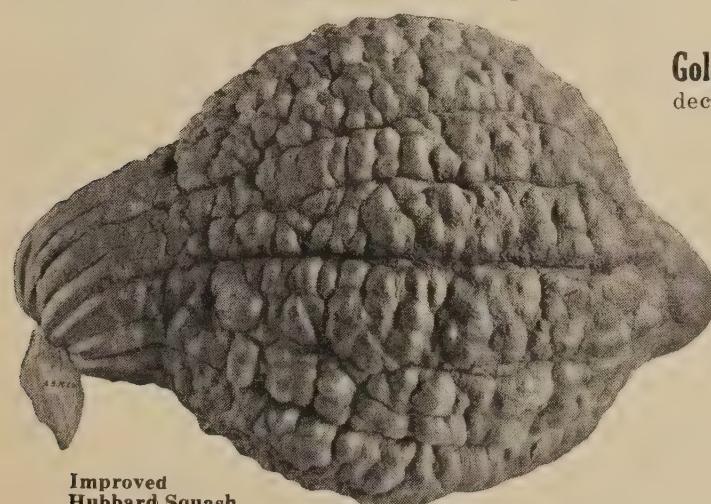


Giant
Summer
Crookneck

Early White Bush Scallop 60 days. Very early summer squash. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Early Yellow Bush Scallop 54 days. A true bush. Earlier and smaller than the above. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Turban (Novelty Winter Squash.) 100 days. Fruits 9 to 10 lbs., of distinctive shape; cylindrical, flattened with a prominence set in a depression at the blossom end, "a squash within a squash." Skin orange-red, somewhat rough, flesh orange and of good flavor. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.



Improved
Hubbard Squash

Mammoth Table Queen 60 days. Similar to the regular Table Queen squash, but larger in size. The quality is unsurpassed and it is a wonderful addition. Much in demand by both home and market gardeners. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.



Table Queen Squash

Table Queen 58 days. A squash fit for a queen. Cut in half and baked for twenty minutes, it is delicious. Wonderful producer. Fruits are from 6 to 8 inches long and 4 to 6 inches in diameter. Shell hard and smooth, dark green with sometimes a blotch of red at pointed end. Will keep as long as the Hubbard. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Zucchini 60 days. A well known Italian Marrow type. Fruits very nearly cylindrical, straight. Color medium green, mottled with cream-gray and lighter green lace pattern and stripes, flesh very firm and of delicate flavor. Oz., 20c; $\frac{1}{4}$ lb., 80c; 1 lb., \$2.50, postpaid.

Delicious 103 days. The standard of excellence in winter squashes. Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth rind, thin but hard; flesh extremely thick, bright yellow, fine grained and dry, without fibre and of highest quality. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Golden Delicious 103 days. Valuable for canners because of the high starch content of its flesh and the bright red-orange color of the exterior. In shape and season it is practically the same as the original Delicious. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

Buttercup 100 days. Similar in shape to the Turban. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed squash of good storage and eating qualities. Oz., 20c; $\frac{1}{4}$ lb., 80c; 1 lb., \$2.50, postpaid.

Cocozella di Napoli (Italian Vegetable Marrow.) 60 days. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

No. 10 PYROCIDE DUST is the control measure against beetles and other insects. Apply promptly and grow your squash without any trouble. Circular free on request.

The Four Hubbards

Golden Hubbard 100 days. Similar to the Old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange-red; flesh deep orange, fine quality; good keeper. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

★Improved Hubbard 105 days. The standard winter squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine grained, thick and dry. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

★Chicago Warted Hubbard 105 days. Similar in quality and form to the Hubbard, but fruit larger and a little later. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

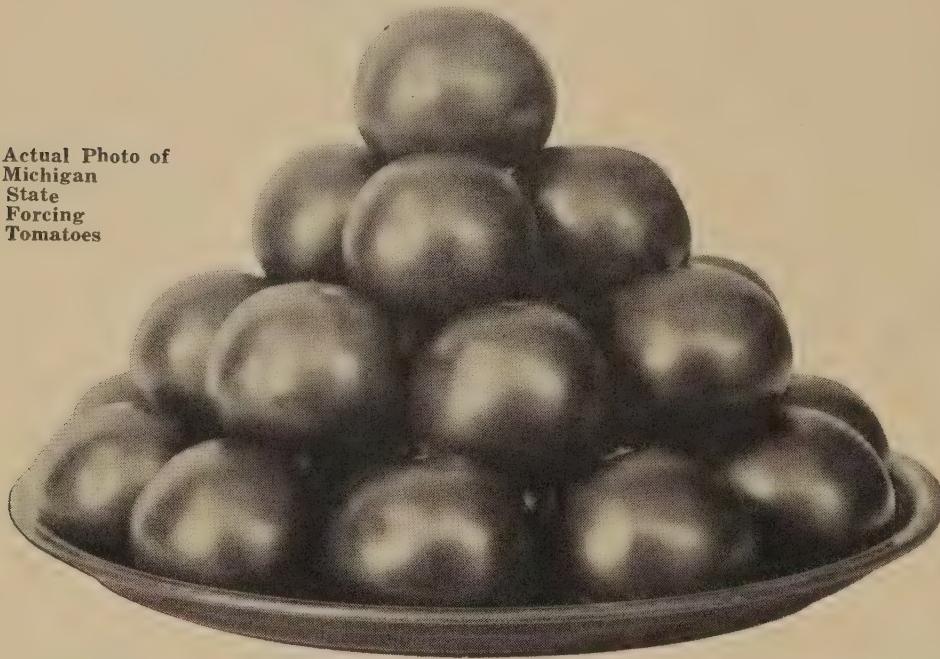
Blue Hubbard 105 days. A new type of Hubbard squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

FORCING VARIETIES OF TOMATOES

Grown in Greenhouses Everywhere

Grand Rapids Forcing Improved Growers strain. This Tomato is red in color, firm and meaty, and is grown in clusters of 6 or 8 tomatoes averaging three or four to the pound. The skin is tough and is a wonderful shipper and keeper. The plant is a vigorous, robust grower and should be trimmed to about 6 feet in height. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; $\frac{1}{2}$ lb., \$3.25, postpaid.

Actual Photo of
Michigan
State
Forcing
Tomatoes



Ideal Forcing Is the result of crossing the Bonny Best with the Comet and is a heavy yielding variety. It has no green unripe core, is dark red in color, not an acid fruit but of excellent quality, and is a larger Tomato than the Grand Rapids Forcing, and a splendid shipper. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; $\frac{1}{2}$ lb., \$3.25, postpaid.

Michigan State Forcing 75 days. An excellent greenhouse variety and a vigorous grower with dark green foliage. Especially attractive medium size fruits (4 to 5 ounces) are borne in clusters of five to eleven. Stem cavity is small, shallow and very smooth. Blossom end well rounded with a very small scar, the outer walls of fruit are thicker, and the firmness of the fruit makes it possible to allow them to ripen on the vine without loss to the grower. Many growers have in late years done remarkably well with this variety for outdoor growing and it is to be recommended. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; $\frac{1}{2}$ lb., \$3.50; 1 lb., \$7.00, postpaid.

Standard Varieties of TOMATOES

Bison 60 days. An extra early scarlet-fruited variety adapted especially to northern climates. Plant small and compact, but extremely productive. Fruit modified globe-shaped. An excellent home garden variety where space is limited. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Earliana 64 days. The most productive, first early red Tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Victor "All-America Selections." 65 days. Awarded Bronze Medal. This Tomato is a dwarf self-topping variety. It can be planted close, 5 feet by 3 feet. It sets fruit when other varieties fail. Is extra early, even ripening, with small vines. Color is uniform, scarlet and has a very noted smoothness of skin. A very solid Tomato that does not crack and is a good shipper. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Firesteel 65-70 days. Small to medium plant, fairly dense, prolific. Fruits scarlet-red, medium size, smooth, almost globular, small core, very firm and fleshy; practically no cracking. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Valiant 67 days. An early market variety. Vines sparse and open. The fruits, weighing about 8 ounces, are smooth, deep and brilliant scarlet in color. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Pan America 67-75 days. Similar to Marglobe but smaller leaved. Developed by W. A. Porte, of the U. S. D. A., for high resistance to nail-

head rust and moderate resistance to wilt. Fruits bright scarlet, medium large, average 6 to 7 ounces, smooth, globular to deep oblate, small core, moderately thick flesh, very thick outer wall, almost free of cracking, 5 to 8 locules. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Break o' Day 70 days. The earliest disease-resistant, scarlet-fruited, meaty Tomato yet introduced, 10 to 12 days earlier than Marglobe and very productive. Fruits are of the Marglobe type, deep globe-shaped, solid, meaty, with few seeds and a beautiful scarlet color. Excellent for home gardens, truck farmers or canners. **Crop failure.** We suggest Grothen's Globe.

Grothen's Globe 70 days. A much improved type over the Break o' Day, and while disease resistant the vines are heavier foliated, growing large, upright, early, hardy and prolific. The fruit is bright red, large, globe shaped, firm, smooth and of good quality. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Early Baltimore Certified. 70 days. Selection of Marglobe, disease resistant, adapted to all soils. Fruit somewhat smaller, bright red color, and very prolific. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Scarlet Dawn 70 days. A leading early variety for garden, shipping and canning. Plant of medium growth, fairly open, very prolific. Fruits medium large with thick wall structure, globular, smooth, free from flat sides, bright scarlet, ripening well to the stem, exceptionally attractive. Adapted to both field and greenhouse production. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Stokesdale Certified. 70 days. A second-early scarlet fruited variety maturing about a week earlier than Marglobe. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Golden Jubilee

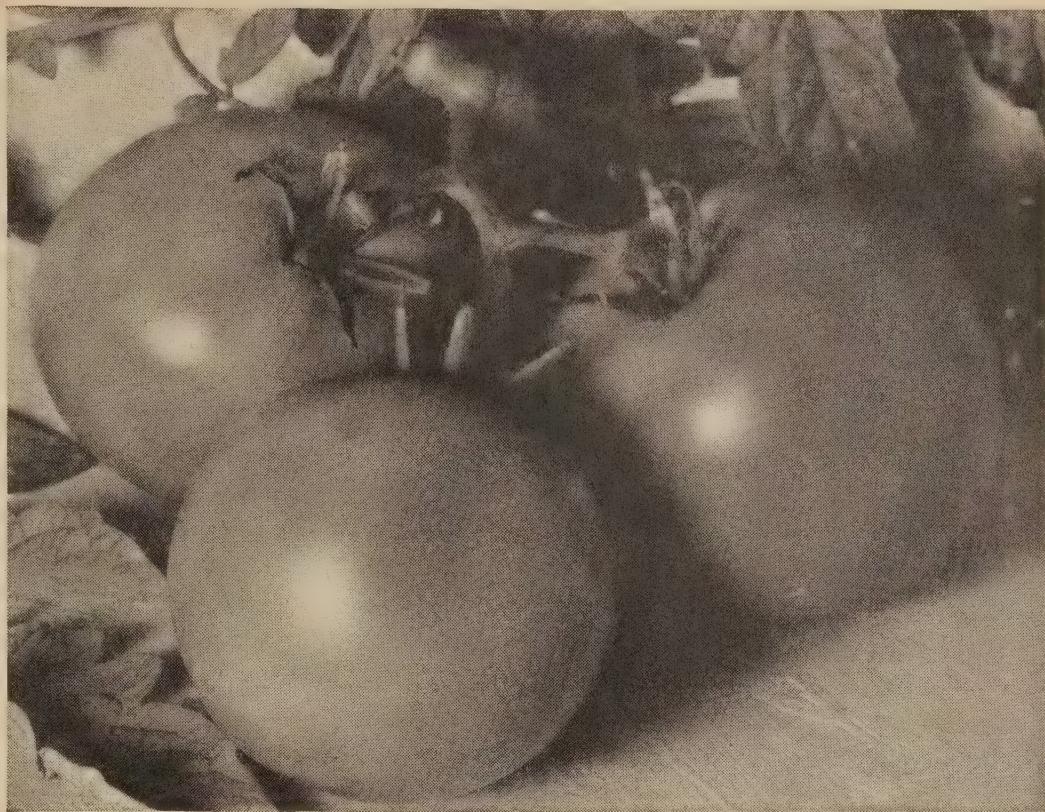
72 days. Short stemmed, sturdy and compact, bearing over a long period. Fruit golden yellow, globular, thick walled, of mild flavor and good quality. Medium size. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Bonny Best Certified. 73 days.

Unexcelled as a general purpose Tomato; particularly valuable for forcing under glass as a canning variety in northern sections. Fruits evenly colored bright deep scarlet - red; medium large; flattened globe-shaped; smooth and firm. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Chalk's Early Jewel 75 days. An exceptionally fine early variety. About ten days later than the Earliana. Fruit round, smooth and solid. Color crimson. Extremely productive. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Comet 75 days. An excellent climbing variety for greenhouse as well as outdoor growing. Smooth, dark red in color, ripens well throughout. Fruit grows to a good size in heavy clusters and not very acid in quality. A splendid shipper. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.



CERTIFIED John Baer Tomato

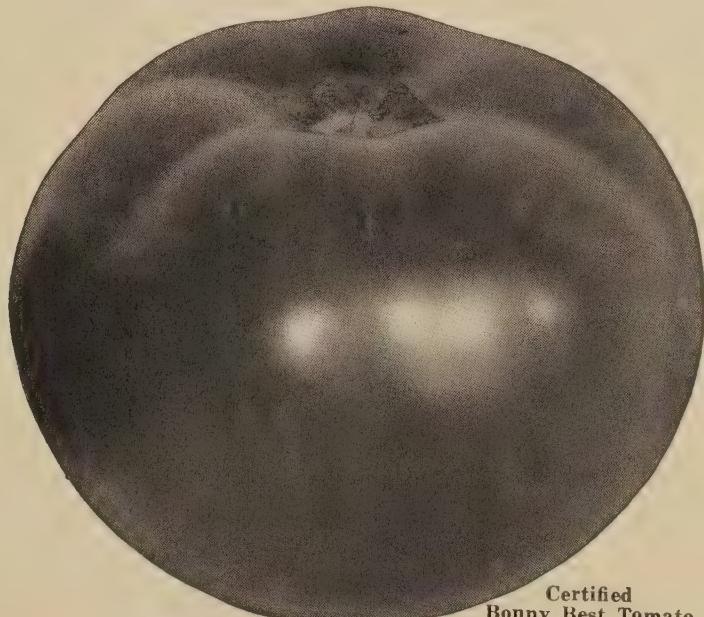
★ **John Baer** Certified. 73 days. An early, productive, red Tomato, on the order of the Chalk's Jewel. Splendid producer. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Marglobe Certified. The Wilt and Nailhead Rust-Resistant Sort. 75 days. Was produced by crossing Livingston's Globe with one or more other varieties. It is a vigorous grower whether in greenhouse or field. A bright red in color, of large size, almost round, and very productive. It is very promising. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Pritchard or Scarlet Topper Certified. 75 days. Very productive early sort. The splendid, globe-shaped, smooth fruits grow to a good size and attain an attractive bright red color. Flesh firm, mild flavored, free from acidity, with no core and small seed cavity. Plants grow compact and robust and produce a heavy crop when planted in good rich soil. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

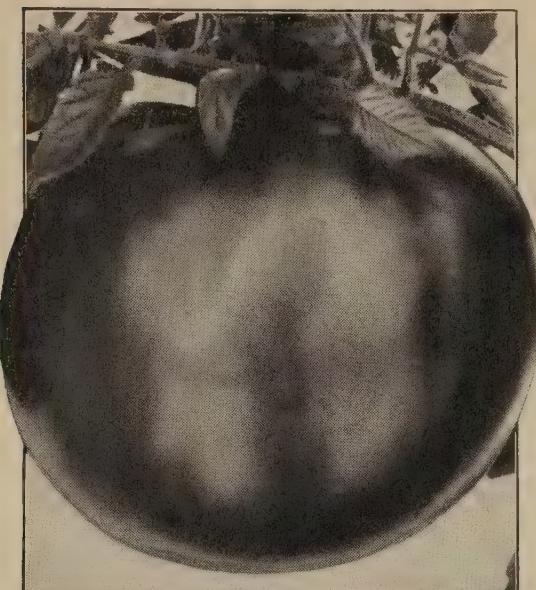


Grothen's Globe Tomato



Certified
Bonny Best Tomato

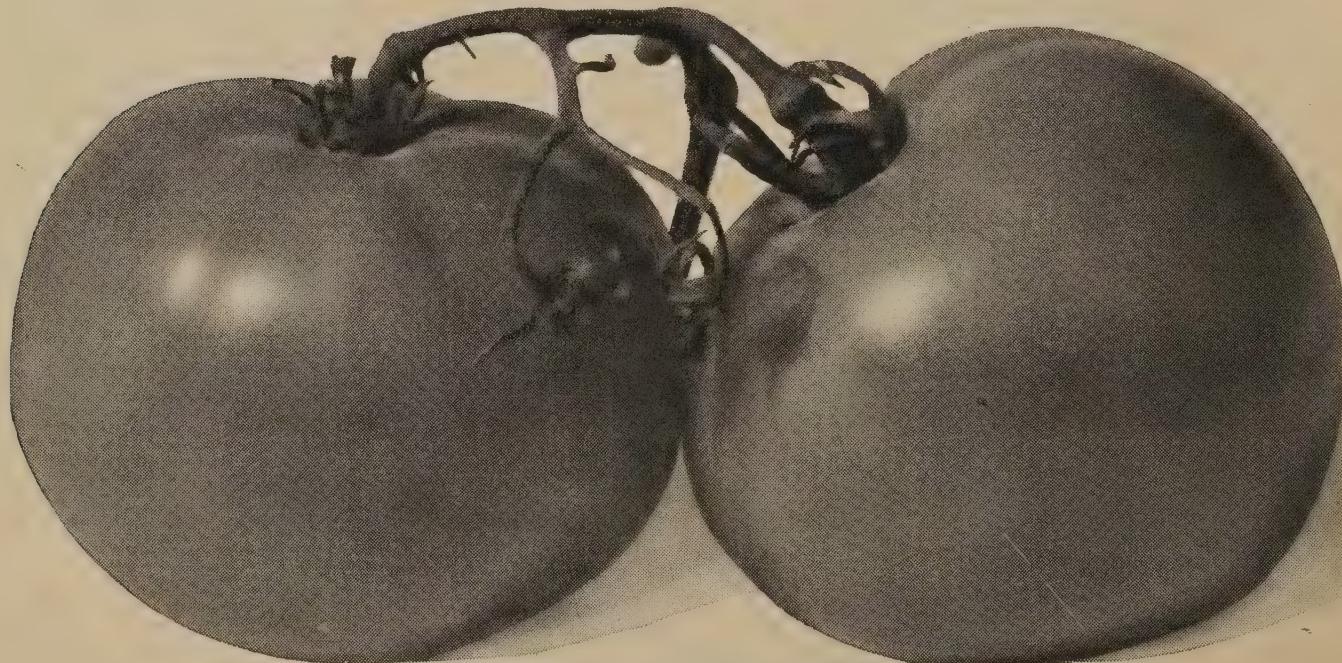
★ This variety recommended by the Michigan State College.



CERTIFIED Marglobe Tomato



Oxheart Tomato



CERTIFIED Greater Baltimore Tomato

Standard Tomato Varieties - Cont.

Dwarf Stone 81 days. The best of the dwarf Tomatoes. Fruits large, smooth, very solid, of a deep scarlet color. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Greater Baltimore Certified. 83 days. Second early and main crop variety. Deep scarlet-red in color, vigorous and very productive. Preferred by canners on account of its heavy yield. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

New Stone 85 days. The standard and general favorite with truckers and canners, always dependable, very vigorous and productive, fruits round, large, solid, smooth, and deep red in color. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.50, postpaid.

Ponderosa 85 days. A very large, purple-fruited Tomato; solid with but few seeds, and not acid. Fine for slicing. Oz., \$1.00; $\frac{1}{4}$ lb., \$3.50; 1 lb., \$12.00, postpaid.

Beefsteak (Red Ponderosa.) 90 days. A wilt-resistant large variety for home and market garden use. Plant is open in habit of growth, heavy. The fruit is large, flat, scarlet, rather smooth. Oz., 80c; $\frac{1}{4}$ lb., \$2.40; 1 lb., \$8.00, postpaid.

Oxheart 90 days. An attractive pink-skinned variety. It is exceedingly smooth and tender and almost seedless. It has that delicious mild flavor. Rich soil adds greatly to its productiveness. A late variety. Oz., \$1.35; $\frac{1}{4}$ lb., \$4.00; 1 lb., \$15.00.

Certified Rutgers 114 days. It has a thick outer and inner wall of solid meat. Globe shaped, scarlet-red in color, resembling Marglobe. The Rutgers is in great demand for all purposes. Oz., 60c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$7.00, postpaid.

Small Fruited Tomatoes Used for pickles, preserves, canning, etc. Easily grown and yield well. Yellow Plum, Red Pear, Yellow Pear and Red Peach. Price of any of the four varieties: $\frac{1}{4}$ oz., 30c; oz., \$1.00, postpaid. Special: One packet of each of these four varieties for 50c, postpaid.



Purple Top White Globe Turnip

Turnips

CULTURAL DIRECTIONS. One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.

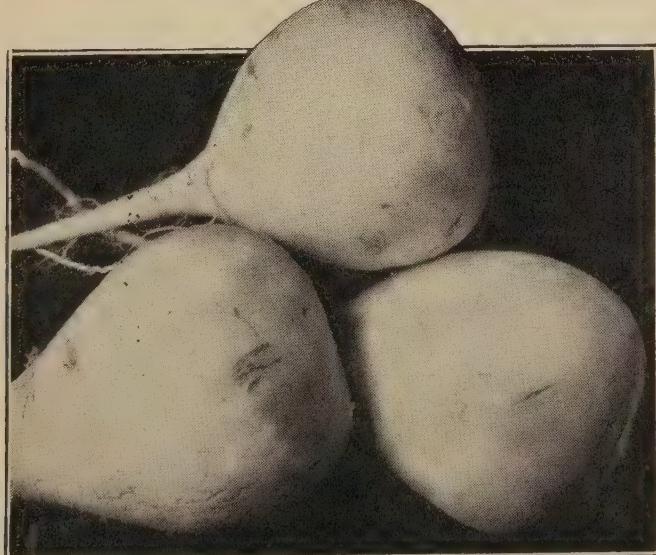
★ Purple Top White Globe 55 days. Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive Turnip and best seller. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Extra Early White Milan 40 days. The earliest bulbs, small, clear white, and flat. One of the best for early bunching. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Purple Top Strap Leaved 45 days. A very early, flat variety, medium size; purple or red above ground and white below. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Golden Ball 65 days. Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

★ Recommended by Michigan State College



White Egg Turnip

White Egg 55 days. An early egg-shaped variety. Roots smooth, clear white. One of the best for market. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.



Yellow Globe Turnip

Yellow Globe 75 days. A round, smooth, light yellow variety of medium size and good quality. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Cow Horn 65 days. Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Yellow Aberdeen 75 days. A late, medium sized, long keeping variety, roots round, yellow with a purple top, flesh tender. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

Seven Top 45 days. For turnip greens. Extremely hardy foliage turnip for table or forage use. Crown sends up numerous shoots which are excellent for greens. Oz., 10c; $\frac{1}{4}$ lb., 25c; 1 lb., 75c, postpaid.

SEED TREATMENT PAYS

Treat your seeds with Semesan disinfectants and assure yourself of a crop.

Seed treatment pays no matter what kind of seed is treated. We handle a complete line.

Aromatic, Medicinal and Pot Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.

ANISE. Used for garnishing, seasoning and for cordials. Pkt., 10c, postpaid.

BASIL, SWEET. Annual. About 12 inches tall. Entire plant has fragrant, somewhat spicy aroma; used for seasoning. Pkt., 10c.

CARAWAY. Seeds are used for flavoring breads, pastry, meats, etc. Pkt., 10c, postpaid.

CELERIAC or TURNIP-ROOTED CELERY, Giant Prague. Pkt., 10c, postpaid.

CHICORY (French Endive). Used extensively for salads. The new leaf growth forms a compact blanched head with broad, crisp leaves, having a pleasantly sharp flavor. Pkt., 10c, postpaid.

CHIVES. Hardy perennial plants of the onion type. Easily grown from seeds. The small leaves are used for seasoning. Pkt., 10c; oz., \$1.50; $\frac{1}{4}$ lb., \$4.50, postpaid.

CORIANDER. The seeds are used for flavoring. Pkt., 10c, postpaid.

DANDELION. Improved thick leaf. Very superior strain. Makes vigorous, very compact growth. Leaves 18 to 24 inches across, thick in texture and blanch readily. Pkt., 10c, postpaid.

DILL. Leaves are used in pickles and for flavoring soups and sauces. Oz., 20c; $\frac{1}{4}$ lb., 60c; 1 lb., \$2.00, postpaid.

LAVENDER. True. Perennial. Flowers are dried and placed in the linen closet to impart their perfume to the linens. Also used as a repellent to moths. Pkt., 10c, postpaid.

FLORENCE FENNEL. Grown in home and market garden. Plant 2 to 3 feet tall. Chiefly grown for the bulb-like structure formed by the enveloping thickened bases of the stalks of the lower leaves. This is aromatic and of a delicate sweet flavor. Pkt., 10c, postpaid.

SAGE. The most extensively used of any herb. An indispensable perennial. Very aromatic. Oz., \$1.50; pkt., 25c, postpaid. Very scarce.

SAFFRON. Used for coloring certain dishes, also flavoring. Pkt., 10c, postpaid.

SUMMER SAVORY. The leaves and young shoots are used for flavoring. Pkt., 10c, postpaid.

THYME. Hardy perennial, 8 to 10 inches tall, of strong, agreeable, aromatic odor and flavor; used in medicine and for seasoning culinary preparations. Pkt., 10c; 1 oz., \$2.00, postpaid.



Chives



Dill



Sweet Marjoram

As Herbs are largely European grown it is not said as yet that they will be available, but we hold ourselves in readiness to obtain them and will do our best to supply, so all prices quoted herein are subject to available stocks on hand and prices are subject to change without notice.

PLANET JR. TOOLS

We Handle the Entire Planet Jr. Line of Tools and Tractors, as Well as Repair Parts. Write for Catalog and Price List.



No. 13 Double
Wheel Hoe

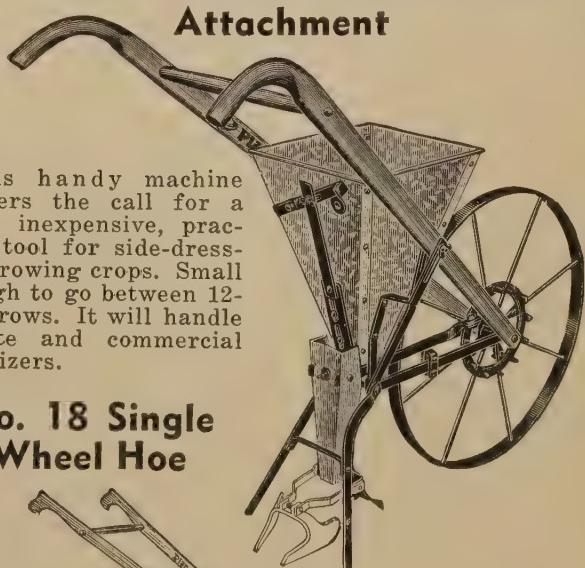
To those who like a double wheel cultivator we recommend this machine. The two wheels make the going more steady.

No. 300 Planet Jr. Seeder

The ideal machine for the market gardener. Drops evenly and accurately any vegetable seed from the smallest up to Bush Lima beans. New style waved feed wheel does not crush or break beans or peas. Hopper can be removed in a few seconds to empty leftover seeds.

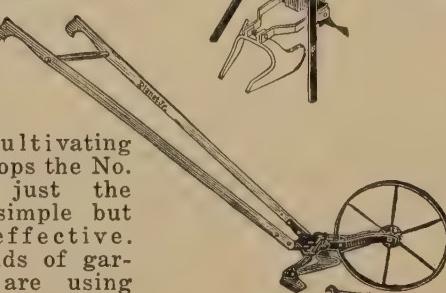


No. 219 Cultivator with Fertilizer Attachment



No. 18 Single
Wheel Hoe

For cultivating small crops the No. 18 is just the thing; simple but very effective. Thousands of gardeners are using them profitably.



Making a Lawn and Its Care

Preparing the Soil

The most desirable soils for the lawn are the "loams", but if the soil available for the building of a lawn is a tight clay, sand should be added, or if a sandy soil, humus is needed, which would make it as nearly a loam as possible.

Even such simple tasks as spading are important and should be done with care. The depth of the surface soil largely determines the depth to which one should spade. If the top soil is six inches or less in thickness, work it to the depth of the surface soil. Never turn up the subsoil.

To get the best results from spading, each shovelful of soil is turned over and placed upon the edge of the hole away from the spader. It is then pulverized with a tap of the spade. This not only breaks up the mass, but carries the granulated soil back into the hole from which it was originally taken.

After the spaded soil has been well pulverized, grade the soil to slope gently from the house. The grading will prevent water from standing around the foundation of the house. Next, level and roll until the seedbed is firm.

Applying Plant Food

When the seedbed has been completed, Vigoro, the complete balanced plant food, or Milorganite should be applied. The lawn is never so effectively fed as before the grass seed is sown. The plant food should be applied and spread evenly over the surface of the soil at the rate of 4 pounds per hundred square feet, and worked into the top few inches.

Sowing Seed

After the plant food has been worked into the soil, the seed should be spread uniformly over the surface at the rate of 4 or 5 pounds per one thousand square feet of soil. The seeding should be done by going in both directions to get an even distribution, both at the ends as well as the center of the throw.

A covering of clean straw or coarse cheesecloth on the steep slopes will help to prevent washing which may occur before the grass becomes established.

Feeding

About 8 or 10 weeks after the lawn is seeded the young grass should again be fed either Vigoro, the complete balanced plant food, or Milorganite. The application is made at the rate of 2 pounds per hundred square feet of lawn.

The plant food should be applied when the grass is dry and then brushed from the grass with a broom or the back of a rake and the lawn should immediately be given a thorough soaking to wash the fertilizer from the grass and carry it into the soil. If the plant food is allowed to remain on the grass and moisture should reach it the result would be a burning of the tender leaves. To prevent this, a thorough watering is very essential.

Grade "A" Sunny Lawn Mixture

This is our own mixture, containing Kentucky Blue Grass, Fancy Red Top, Domestic Rye Grass, and 10% pure White Clover. Wonderful results are and have been obtained with this mixture. We use only the very best of seeds obtainable, of lasting value and hardiness, giving you a beautiful and permanent lawn that will last for years.

Grade "A" Shady Lawn Mixture

Contains Kentucky Blue Grass, Red Top, and New Zealand Chewings Fescue. This mixture is also our own, being mixed by ourselves especially for the shady spots. We use only the very best of seeds obtainable and as more care and attention is required we have used the hardier grasses, that will make a dense, thick growth in light soils and a very satisfactory lawn in shady places or where sun is available only a part of the time.

Well-fed grass withstands the inroads of weeds and also resists injury from the attack of certain diseases, and by regular feeding with an application of Vigoro or Milorganite will reduce the amount of reseeding necessary. The greater development of the root system and the ability to store up reserves of food material, make well-fed grass able to withstand the extremes of either winter or summer weather and to maintain a dense turf year after year.

Special care must be given the lawn throughout the hot summer months, as Kentucky Blue grass needs a resting period in mid-summer, and Red Top will grow most anywhere and has its resting period in the fall after the Kentucky Blue Grass has recovered. If excellent growth and vigor have been maintained during the spring, the lawn can be kept in a green vigorous condition during the summer, by careful watering, feeding and clipping.

At the approach of fall, lawns should again have a thorough application of either Vigoro or Milorganite, applied at the rate of 4 lbs. per hundred square feet, and the lawn should be thoroughly soaked, following the application, as stated above.

Care of the Lawn

Young grass should be allowed to grow three inches high before the first cutting, but on established lawns the grass should be cut quite short until the middle of May. Fertilize it well and try to get a complete ground cover, and after this has been accomplished, keep it cut as long as possible. Lower the wooden roller on your mower or better still, alter it or secure one that will cut three inches high. Plenty of leaf growth will shade the grass roots in hot weather and best of all, provide a laborless way of preventing weeds and crab grass from seeding, as weeds will not grow in a thick shady stand of grass and crab grass will not germinate even in semi-shade.

Whenever you are applying water to an established lawn be liberal with the amount used, as the water should penetrate 4 inches to do any good, and light sprinklings do injury—not good; they are about the worst treatment you can give your lawn.

It is best to water only once a week on clay soil, but it should be applied so that the water is quickly absorbed into the soil. Sandy soils dry out more quickly, and lighter and more frequent waterings are necessary.

Inasmuch as we mix our own grass mixtures we have the individual grasses for those who want straight grasses in one spot or another.

Kentucky Blue Grass, June Grass One of the best grasses for permanency. For lawns or pasture, it has no superior. Does well in any soil and stands the summer heat remarkably well. As it takes some time to become established, it is usually sown in mixtures.

Red Top A very hardy perennial grass, succeeding best on moist land. Valuable for lawn or pasture, and will produce large crops of good hay.

Domestic Rye An annual grass, coarser than blue grass, being used extensively on banks and terraces.

White Clover (Dutch). A small, low growing variety. It is largely used in lawns and pastures. It makes a small, close, compact growth covering the ground like a carpet. Its blossoms are round, white and sweet scented, with numerous leaves of bright green color.

Creeping or Red Fescue Resists extreme drought, thrives on inferior soil, gravelly banks and exposed hills.

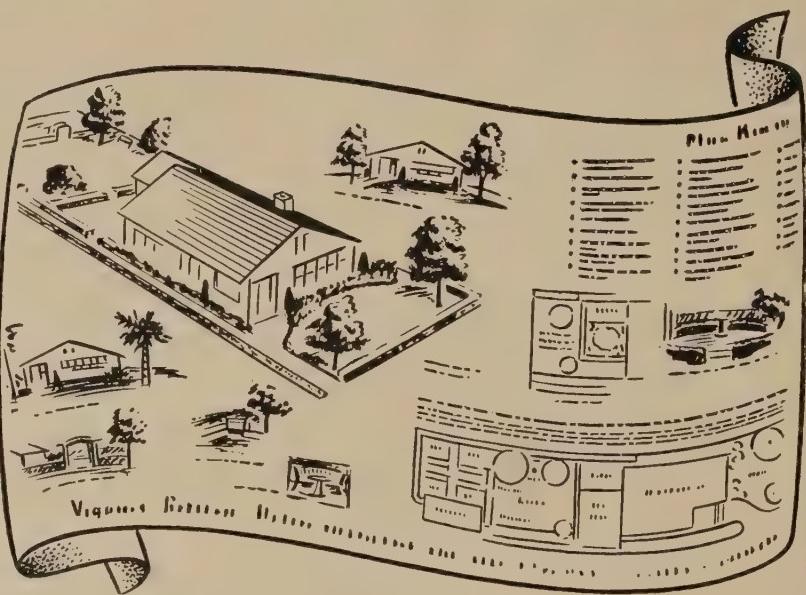
Bent Grass One of the most valuable lawn grasses. Exceptionally good for golf courses, greens, etc., because of its short growth and deep green, fine-leaved foliage. Requires very rich soil and plenty of moisture.

Prices will be Quoted on Request.

Enjoy the Benefits of Professional Landscaping

Beauty Plans Given

Here's a chance to give your home the setting it deserves . . . striking arrangements of shrubs, trees, and colorful flowers on a carpet of velvety grass . . . a professional planned landscape! Follow the Vigoro Beauty Plans designed by one of America's foremost landscape architects. Over thirty planting arrangements and ideas, illustrated in color for small, medium and large sized homes. These remarkable plans give detailed planting suggestions, tell you how to build and maintain a lawn and other valuable hints. These big 16 $\frac{3}{4}$ x 24 inch plans are given with the purchase of one hundred pounds or more of Vigoro, complete plant food.



VIGORO PRICES

FOR LAWNS, FLOWERS, VEGETABLES,
SHRUBS AND TREES

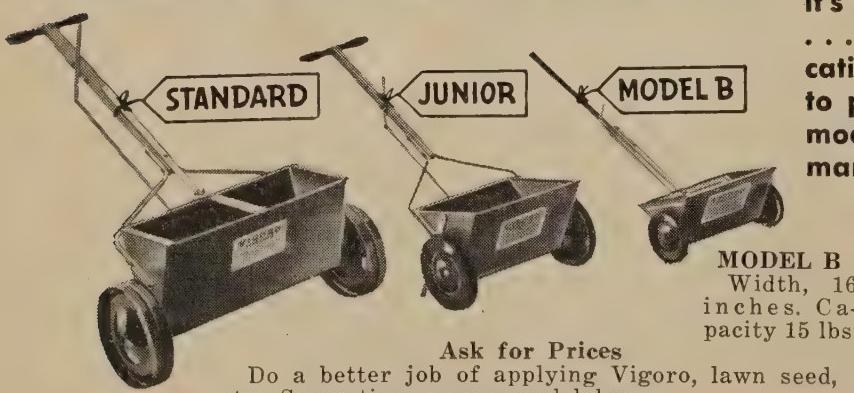
100-lb. bag	\$4.00	10-lb. bag	\$0.85
50-lb. bag	2.50	5-lb. bag .....	.45
25-lb. bag	1.50	1-lb. bag .....	.10



Bigger and Better Vegetables

Recent carefully controlled tests show that Vigoro increases vegetable yields up to 252 per cent. That's because Vigoro is a complete plant food that supplies vegetables with the vital elements they require from the soil for vigorous and healthy growth. To assure a big harvest of early maturing, mineral-rich vegetables, feed everything you grow with Vigoro. Include Vigoro on your seed order. Remember, Beauty Plans are given with the purchase of a 100-pound bag.

USE A VIGORO SPREADER!



Do a better job of applying Vigoro, lawn seed, etc. Saves time, money and labor.

Once you use a Vigoro Spreader you'll say it's just as important as your lawn mower . . . Applies Vigoro at proper rate of application quickly and easily. Sows grass seed to perfection at a big saving in seed. All models sturdily constructed of metal to last many years.

STANDARD
Width, 24
inches. Ca-
pacity 65 lbs.

JUNIOR
De luxe
model. Rub-
ber-tired.
Width 16 in.

SPECIAL
(Not Shown)
Width, 36
inches. Ca-
pacity 100
lbs.

MODEL B
Width, 16
inches. Ca-
pacity 15 lbs.

MODEL B
Width, 16
inches. Ca-
pacity 35
lbs.

FLOWER SEED DEPARTMENT

We are convinced that many of the failures with flower seeds are due to lack of proper conditions, and while it would be impossible in the space at our disposal in this catalog to give explicit directions for each and every variety which we offer, we feel sure that if the general directions given below are followed, success will be the rule.

All of our flower seeds are listed by their common name in strict alphabetical order, together with the botanical name for your guidance.

Success With Flower Seeds

For all flower seeds which should be started indoors, the best plan is to sow in earthenware seed pans or boxes (about 2 inches deep) which should be filled to the depth of an inch with any rough material that will furnish perfect drainage. The upper inch should be nicely sifted soil, composed, if possible, of about one-third each of sand, leaf mould and light garden loam. Press firmly and evenly and water thoroughly the day before sowing. Sow the seeds thinly over the surface, cover about one-eighth of an inch and press firmly. When the seedlings are large enough to handle, they should be transplanted into similarly prepared boxes an inch apart each way, or put into small pots and kept in same until time to plant out in the open ground. At all times they should have an abundance of air, otherwise the young seedlings are liable to "damp off."

For most of the ordinary annual flowers, the simplest method is to sow directly out-of-doors when danger of frost is past in the space where they are intended to flower. The ground should be dug and raked fine on the surface, sowing the seeds evenly and thinly, covering not over four times their size, and firming the soil over them. Should they come up too thickly, as most of them are likely to do, thin out so that the plants will stand from 4 to 12 inches apart, according to the variety.

How to Sow Flower Seeds

It will prove quite an advantage to mix all small seeds with sand or dry soil and scatter broadcast. This separates the seeds and is quite an advantage in thinning out or transplanting the young plants as those that remain are undisturbed. A common mistake in sowing flower seeds is covering too deeply. The exception to this is the Sweet Pea, which is seldom planted deep enough. As a general rule, cover small seeds only to the depth of the thickness of the seeds; always press the earth after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seed of the hardier annuals may be sown where they are to grow; but as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

Annuals are those flowers which bloom and die the same year; grown from seed exclusively.

Biennials bloom and die the second year from the seed-ing time.

Perennials grow the plant the first year but do not flower until the second year and then bloom every year.

SPECIAL NOTICE!

Where many of the flower seeds and herbs are an imported item, it is extremely difficult to say whether or not there will be any available for planting this year; however, we would appreciate your inquiry and will quote prices on request, if available later in the season.



Sweet Alyssum

ABRONIA (Sand Verbena). Pkt., 10c.

Alyssum (A) (SWEET ALYSSUM)

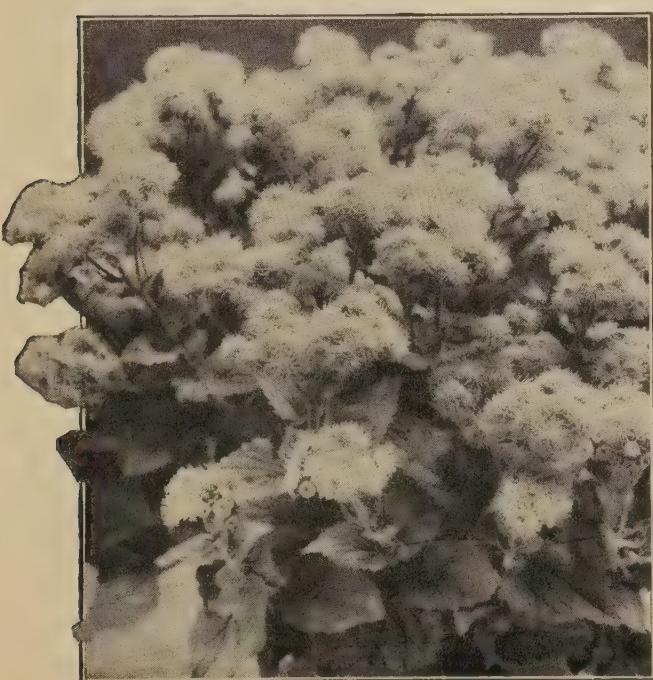
Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.
Little Gem. Erect; white. 1 oz., \$1.00; $\frac{1}{4}$ oz., 30c; pkt., 10c.
Violet Queen. Pkt., 10c.
Carpet of Snow. Pkt., 10c.

Alyssum (P)

Saxatile compactum (Basket of Gold). 9 inches high. Blooms in May and June, producing masses of golden flowers very early. $\frac{1}{4}$ oz., 30c; pkt., 10c.

Ageratum (A) (FLOSSFLOWER)

One of the best summer blooming plants. They are rapid growers; early and constant bloomers.
Mexicanum Tall. 18 inches. Beautiful, soft lavender-blue, of free branching habit. $\frac{1}{4}$ oz., 40c; pkt., 10c.
Blue Cap. Selected. 6 inches. Definitely more dwarf, more compact in habit with small leaves. Bright, deep, rich lavender-blue. $\frac{1}{4}$ oz., \$1.50; pkt., 10c.
Blue Perfection. Pkt., 10c.



Ageratum

ARCTOTIS, Grandis. Pkt., 10c.

ANCHUSA ITALICA, Dropmore. Pkt., 10c.

ARABIS, Alpina. Pkt., 10c.

ARMERIA, Maritima. Pkt., 10c.

Wilt-Resistant Asters (A)

Giant Crego. The flowers are of immense size, usually measuring from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. Mixed, all colors. $\frac{1}{4}$ oz., 50c; oz., \$1.60; pkt., 10c.

Queen of the Market. The best early Aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit. Mixed, all colors. $\frac{1}{4}$ oz., 50c; oz., \$1.60; pkt., 10c.

American Beauty. Late flowering. Mixed colors. $\frac{1}{4}$ oz., 75c; pkt., 10c.

Heart of France. A dark ruby-red variety; large double flowers, a beautiful type. The most outstanding aster grown. $\frac{1}{4}$ oz., 80c; pkt., 10c.

Giant California Sunshine. The flowers are large, with loosely placed outer petals contrasting with the creamy yellow or blue centers, giving a lazy effect which is quite delightful. The rogues and off types bloom first and the Giant Sunshine later. Mixed colors; $\frac{1}{4}$ oz., 95c; pkt., 10c.

Giant Branching. Mixed colors. $\frac{1}{4}$ oz., 50c; 1 oz., \$1.60; pkt., 10c.

Double American Branching, Mixed. Pkt., 10c.

ACROCLINIUM, Double Mixed. Pkt., 10c.



Giant California Sunshine Aster

Balsam (A)

(LADY SLIPPER)

Double Camellia-Flowered Mixed. An old and favorite garden flower, producing its gorgeous masses of beautiful colored, double flowers in the greatest profusion. 1½ to 2 feet. Oz., \$1.00; pkt., 10c.

Bush Mixed. Pkt., 10c.

BLUE LACE FLOWER. Coeruleus. Blue. Pkt., 10c.

Calendula (A) (POT MARIGOLD)

Orange King. The outer petals are slightly imbricated, while those in the center are curved like those of the peony. Color glowing orange. Oz., 75c; pkt., 10c.

The Ball. It has fine stems, immense double flower of a brilliant glisten orange. A great favorite on the Chicago cut flower market. $\frac{1}{4}$ oz., 60c; pkt., 10c.

Sunshine. Pkt., 10c.

California Poppy (A) (ESCHSCHOLTZIA)

Especially valuable for growing in flower beds and masses. Sow where plants are to bloom. Bright showy flowers and feathered foliage. Good for cut flowers. **California Mixed**. Large flowers. Oz., 50c; pkt., 10c.



Calendula

Baby's Breath (A)

(GYPSOPHILA)

Graceful plants of fairy-like growth. Large flowering, pure white, of free, easy growth. Much in demand for cutting and combining with other flowers for bouquets and vases. Several sowings should be made during the season to keep up the supply. Oz., 40c; pkt., 10c.

GYPSOPHILA (P) Paniculata. Double white. $\frac{1}{4}$ oz., \$1.00; pkt., 10c.

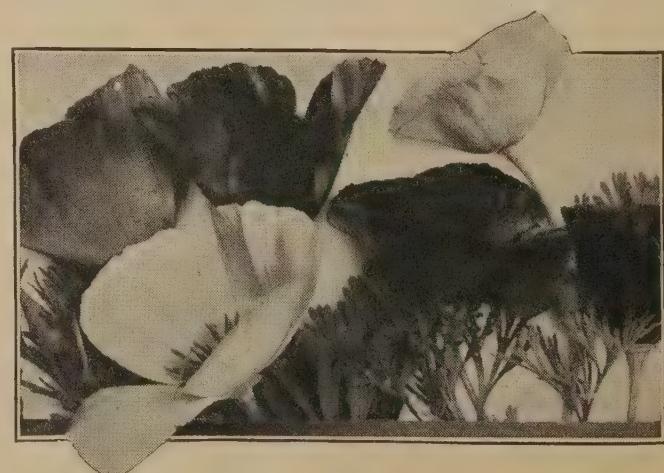
Bachelor's Button

A very popular annual that will always charm by its simple beauty.

Cyanus Mixed. $\frac{1}{4}$ oz., 20c; 1 oz., 65c; pkt., 10c.

Imperialis Mixed. Pkt., 10c.

Jubilee Gem. Pkt., 10c.



California Poppies



Canterbury Bells

Canterbury Bells (B)

(CAMPANULA)

This old-fashioned flower is a favorite with all, stately and showy and of the easiest growth. For best results seed should be sown every year.

Single Mixed. $\frac{1}{4}$ oz., 35c; pkt., 10c.

Double Mixed. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Calycanthema (Cup and Saucer). 2 ft. June to August. Mixed colors. $\frac{1}{4}$ oz., 50c; pkt., 10c.



Chinese Woolflower

Calliopsis (A)

(TICKSEED)

Very graceful border plants, supplying throughout Summer an abundance of elegant, showy flowers which are greatly prized for bouquets and vases. Will thrive anywhere. 6 in. to 2 ft. Double mixed, all colors. Oz., 50c; pkt., 10c.

Candytuft (A)

This is one of the most prized garden annuals. Easily grown from seed and does not need transplanting. Fine for cut flowers. Mixed. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Giant Hyacinth Flowered. White. Pkt., 10c.

CARDINAL CLIMBER (A). $\frac{1}{4}$ oz., 50c; pkt., 10c.

Carnations (A)

Always in demand and not hard to grow, being hardy and free flowering. It is one of the most valuable of summer flowers.

Marguerite. Double Mixed. $\frac{1}{4}$ oz., 80c; pkt., 10c.

Chabaud Giant Mixed. Pkt., 10c.



Centaurea

Castor Bean

(RICINUS) (A)

Decorative plant with fern-like foliage, giving to the garden a magnificent sub-tropical effect; even a single plant forms a pyramid of leaves.

Zanzibariensis. Leaves vary in color from light green to purplish red. $\frac{1}{4}$ lb., 70c; oz., 20c; pkt., 10c.

Celosia (A)

(COXCOMB)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

Tall Coxcomb, Mixed. 18 to 24 inches. $\frac{1}{4}$ oz., 30c; pkt., 10c.

Chinese Woolflower (Celosia Childsi). Plants grow 2 to 3 ft. high, the bloom starting early with a central head, round and globular, which often reaches the immense size of 2 ft. in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. $\frac{1}{4}$ oz., 75c; pkt., 10c.

Plumosa, Dwarf Fiery Feathered. Pkt., 10c.

Feathered, Mixed. Pkt., 10c.

CHINESE FORGET-ME-NOT. Firmament. Pkt., 10c.

CLARKIA, Double Mixed. Pkt., 10c.

CLEOME, Giant Rose Shades. Pkt., 10c.

Coleus (A)
(FOLIAGE PLANTS)

Bedding plants, growing about 1 foot high. Their foliage is highly ornamental. Easy to raise from seed. Sow seed indoors. Extra large. Choice Mixed. $\frac{1}{8}$ oz., \$5.00; pkt., 25c.

Columbine (P)
(AQUILEGIA)

This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June. Mrs. Scott Elliott's Strain, $\frac{1}{4}$ oz., \$1.50; pkt., 10c.

Imp. Long-Spurred Hybrids. Pkt., 10c.



Columbine—*Aquilegia*

Cosmos (A)

Klondyke, Orange Flare. Orange Flare will flower in the North in less than four months from seed and continue to grow and bloom with increasing freedom until killed by frost. As it is a tropical plant it should not be sown out-of-doors until the ground is warm. Give it a full sun in the garden. Cut flowers should be taken when newly opened with low centers when they will keep several days in water. $\frac{1}{4}$ oz., 25c; 1 oz., 75c; pkt., 10c.

Early Flowering Mammoth, Mixed. Oz., 60c; pkt., 10c.

Giant Mixed. Oz., 40c; pkt., 10c.

Sensation, Mixed. Pkt., 10c.

Early Double Crested, Mixed. Pkt., 25c.



Coreopsis

Coreopsis (P)

This is one of the finest of hardy plants, with large, showy, bright yellow flowers produced in the greatest abundance from June until frost. As cut flowers they stand near the head among hardy plants. Oz., 60c; pkt., 10c.

Cypress Vine (A)

For trailing upon a light ornamental trellis the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and finely cut foliage. Mixed. Oz., 75c; pkt., 10c.



Cosmos, Klondyke Orange Flare

DAHLIA, Unwin's Dwarf Hybrids. Pkt., 10c.

Double Daisy (P)
(*BELLIS PERENNIS*)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture. Oz., \$20.00; $\frac{1}{4}$ oz., \$6.00; pkt., 10c.

Delphinium (P)
(*PERENNIAL LARKSPUR*)

Blackmore and Langdon Strain. Tall, graceful spikes of bloom, covered from top to bottom with captivating blooms in charming color combinations. All the clear shades of blue with many opaline variations. Pkt., 10c.

Pacific Giants, Mixed. This new strain produces plants that are 60-65 per cent mildew-resistant. The flowers are immense size, tightly set on straight stems. The flowers do not shatter and are fine for cut flowers. Pkt., 10c.

Chinese Perennial Mixed. Pkt., 10c.

Azure Fairy. Pkt., 10c.

Forget-Me-Not (B)
(*MYOSOTIS*)

They are considered among the best spring flowers. They prefer moist, cool soil, and will bloom freely in fall and early spring.

Victoria. Sky-blue. Oz., \$6.00; $\frac{1}{4}$ oz., \$1.90; pkt., 10c.

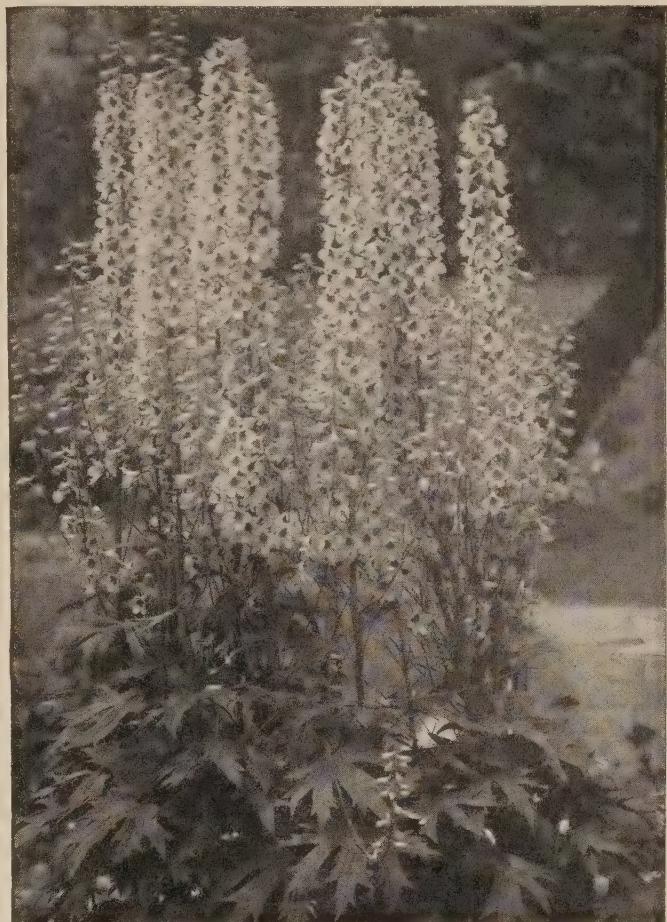
Victoria Rosea. Pink. Oz., \$4.00; $\frac{1}{4}$ oz., \$1.35; pkt., 10c.

Four O'clock (A)
(*MIRABILIS*)

Marvel of Peru. Mixed colors. $\frac{1}{4}$ lb., \$1.25; oz., 40c; pkt., 10c.



Gaillardia



Delphinium—Larkspur

Foxglove (B)
(*DIGITALIS*)

Bearing long spikes of beautifully colored flowers; fine for planting in hardy borders or among shrubbery. Mixed. $\frac{1}{4}$ oz., 60c; pkt., 10c.

Gaillardia (A)
(*BLANKET FLOWER*)

Picta Lorenziana. Double flowers, mixed colors. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Gaillardia (P)
(*BLANKET FLOWER*)

Bloom from June to October. Their long flowering period, long stems and bright colors make these one of the most valuable perennials, being easily grown in beds and borders.

Grandiflora. Mixed, single. $\frac{1}{4}$ oz., 50c; pkt., 10c.

GEUM, Double Scarlet. Pkt., 10c.

GORUDS, Small Fruited Mixed. Oz., 30c; pkt., 10c.



Forget-Me-Not

HELIOTROPE. Dark varieties mixed. Pkt., 10c.

HESPERIS. Purple or white. Pkt., 10c.

HIBISCUS. Pkt., 10c.

Hollyhocks (P)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 ft.

Double Mixed. Double and semi-double. $\frac{1}{4}$ oz., 65c; pkt., 10c.

HOLLYHOCK, Indian Spring. Pkt., 10c.

HUNNEMANNIA. Pkt., 10c.

ICELAND POPPY, Sunbeam Mixed. Pkt., 10c.

KOCHIA Chilensis. Pkt., 10c.

LANTANA. Pkt., 10c.

Larkspur (A)

The graceful spikes of blooms are much valued for vases. They continue long in bloom.

Double Mixed. All colors. $\frac{1}{4}$ oz., 30c; oz., \$1.10; pkt., 10c.

Giant Hyacinth-Flowered. Mixed. 3 feet. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate colors. $\frac{1}{4}$ oz., 60c; oz., \$1.80; pkt., 10c.

Rosamond. Deep pink. Pkt., 10c.

Super Majestic. Pkt., 10c.

Salmon Rose. Pkt., 10c.

Blue Spire. Pkt., 10c.

White King. Pkt., 10c.

Majestic Rose. Pink. Pkt., 10c.

FOR PERENNIAL VARIETIES, see DELPHINIUM

LAVENDER. Pkt., 10c.

LOBELIA, Crystal Palace. Pkt., 10c.

LUNARIA, Biennis. Pkt., 10c.

LUPIN, Perennial Mixed. Pkt., 10c.

Marigold (A)

(*TAGETES*)

Sunset Giants. Huge flowers with a color range through orange, yellow and primrose. A tall variety and a beauty. $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75; pkt., 10c.

Guinea Gold. 2 to 2½ feet. An unusual type of Marigold, color orange flushed with gold. Nearly all flowers are double or semi-double and their odor is less pungent than that of other Marigolds. Oz., \$1.60; $\frac{1}{4}$ oz., 50c; pkt., 10c.

Yellow Supreme. A large, fluffy, well rounded bloom of delicately milk-honey fragrance, with broad, loose frilled petals of a rich, creamy lemon color. Plants are practically free from the objectionable Marigold odor. $\frac{1}{4}$ oz., 50c; oz., \$1.60; pkt., 10c.

Double Tall African. $\frac{1}{4}$ oz., 50c; oz., \$1.60; pkt., 10c.

Double Dwarf French. $\frac{1}{4}$ oz., 30c; oz., 90c; pkt., 10c.

Gold Medal Blend. Pkt., 10c.

Harmony. 12 to 14 inch. An annual dwarf French Marigold having scabious-like flowers of deep orange with maroon collars of broad petals, crested centers. Usually free flowering and very early. (Pictured in colors on our inside back cover). $\frac{1}{4}$ oz., 30c; oz., 90c; pkt., 10c.



Double Hollyhocks

MARIGOLD, Burpee Gold. Pkt., 10c.

MATTHIOLA. Pkt., 10c.

Mignonette (A)

Machet. The best for all purposes. Of dwarf habit, with very large red flowers and handsome foliage. $\frac{1}{4}$ oz., 30c; pkt., 10c.

MOMORDICA, Mixed. Pkt., 10c.



Yellow Supreme Marigold



Giant Hyacinth-Flowered Larkspur



Morning Glory, Giant Cornell

Morning Glory (A) (CONVOLVULUS)

Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

Common, Mixed. Oz., 25c; pkt., 10c.

Japanese, Mixed. Oz., 50c; pkt., 10c.

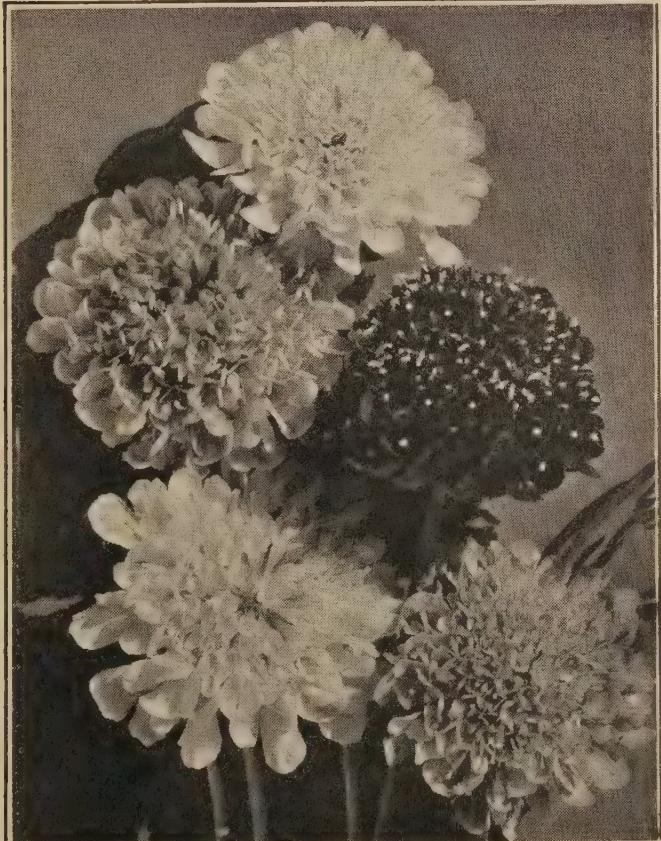
Heavenly Blue. Oz., 60c; pkt., 10c.

Scarlett O'Hara. Oz., \$1.15; pkt., 15c.

Pearly Gates. Oz., \$1.25; pkt., 15c.

Crimson Rambler. Pkt., 10c.

Giant Cornell. Red with white edge. The best red large flowered Morning Glory. Oz., \$1.35; pkt., 15c.



Scabiosa (Mourning Bride) A—Listed on Page 42

MOONFLOWER. Pkt., 10c.

Nasturtiums (A)

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is a moderately good soil, in a well drained sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blossoms.

Dwarf, Mixed. Oz., 25c; pkt., 10c.

Tall, Mixed. Oz., 25c; pkt., 10c.

Scarlet Gleam. Plain petaled and deep throated. This is a sweet scented variety similar to Golden Gleam. Oz., 30c; pkt., 10c.

Golden Gleam. An attractive, double-flowered, sweet-scented variety adapted to culture as a bedding or pot plants. Also valuable for cut flowers. Oz., 30c; pkt., 10c.

Double Glorious Gleam Hybrids. These hybrids are a collection of gorgeously colored, large, well formed flowers of such dazzling beauty and colors that were never dreamed of before in a double nasturtiums. Mixed colors. Oz., 30c; pkt., 10c.

NEMESIA, Triumph Mixed. Pkt., 10c.

NICOTIANA, Evening Star. Pkt., 10c.

OENOTHERA. See Primrose. Pkt., 10c.



Golden Gleam Nasturtiums

Pyrethrum (P) (PAINTED DAISY)

One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flower. Flowers in May and June and frequently in August and September; in all shades of rose and pink. Height 1 to 2 feet.

Roseum. Single mixed. $\frac{1}{4}$ oz., \$2.00; pkt., 10c.

Petunias (A)

For freedom of bloom, variety of color and effectiveness these have no equal. If only a little care is bestowed upon them, they will produce their handsome, sweet-scented flowers in their delicate and gorgeous colors throughout the whole summer and bloom profusely until killed by hard frosts.

The Petunia loves a rich soil and thrives best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.

Single Giant Flowering Varieties

The flowers of this strain average five to seven inches across and are wonderful.

Giants of California Mixed. The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. $\frac{1}{8}$ oz., \$9.00; pkt., 25c.

Balcony or Trailing. (15 in.) To droop over the edge of a window box or to overhang a terrace, these are the best Petunias to select. In their several colors the single flowers are very gay either alone or in combination.

Balcony Black Prince. Deep velvety mahogany-red, black throat. $\frac{1}{4}$ oz., \$1.85; $\frac{1}{8}$ oz., \$1.00; pkt., 25c.

Balcony Blue. Deep violet-blue. $\frac{1}{4}$ oz., \$1.50; pkt., 15c.

Balcony Rose. Vivid rosy pink. $\frac{1}{4}$ oz., \$1.75; pkt., 15c.

Balcony Mixed. Several colors. $\frac{1}{4}$ oz., \$1.25; pkt., 15c.

Special Mixture of Dwarf Small-Flowering Varieties.

Includes all the varieties listed and many others, and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the summer lasts. $\frac{1}{4}$ oz., \$1.15; pkt., 10c.

Celestial Rose. An improvement on the Rosy Morn. More compact in growth and deeper in color. A beautiful rich satiny rose. $\frac{1}{8}$ oz., \$1.00; $\frac{1}{4}$ oz., \$1.75; pkt., 10c.

Petunia Violacea. Deep violet, compact. $\frac{1}{4}$ oz., \$1.10; pkt., 15c.

Silver (Heavenly) Blue. Pkt., 10c.

Howard's Star. Pkt., 10c.

White King. Pkt., 10c.

Glow. Pkt., 25c.

King Henry. Pkt., 25c.

Giant Ruffled and Fringed. Pkt., 25c.

Double Fringed Dwarf Max. Mixed. Pkt., 75c.

Dwarf Max. Double Fringed. Mixed. Pkt., \$1.25.

Salmon Supreme. Pkt., 25c.

Hollywood Star. Pkt., 25c.

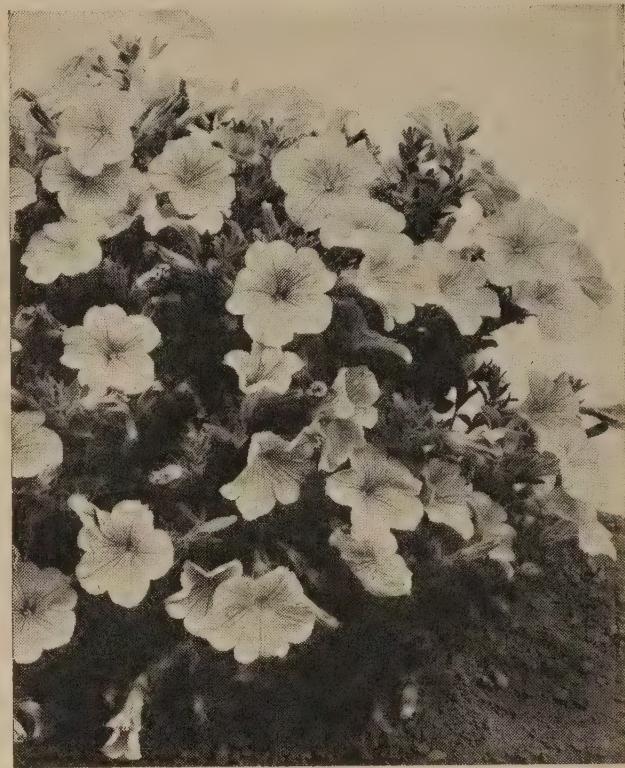
Rose King Improved. Pkt., 10c.

Cream Star. Dwarf. Pkt., 10c.

First Lady. Dwarf. Pkt., 25c.

Rose Bedder. Dwarf. Pkt. 10c.

Midget. Mixed. Pkt., 10c.

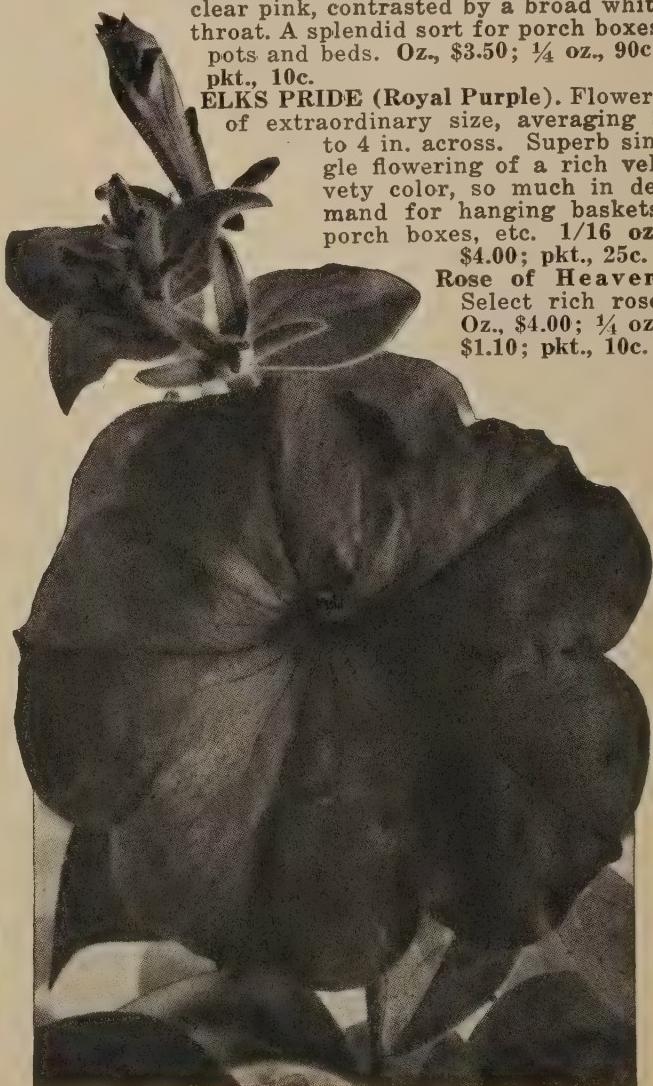


Rosy Morn Petunia

Rosy Morn Select. The plants are bushy and compact, flowers of medium size, produced in great abundance the entire summer and fall; are of a most pleasing clear pink, contrasted by a broad white throat. A splendid sort for porch boxes, pots and beds. Oz., \$3.50; $\frac{1}{4}$ oz., 90c; pkt., 10c.

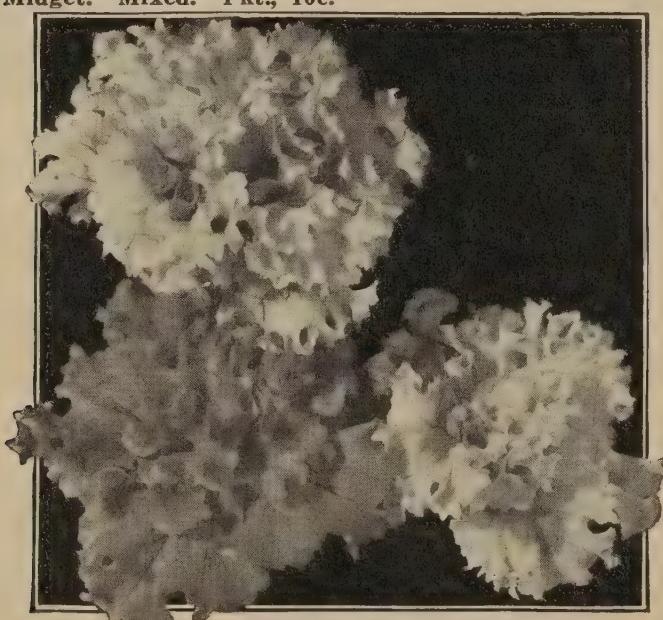
ELKS PRIDE (Royal Purple). Flowers of extraordinary size, averaging 3 to 4 in. across. Superb single flowering of a rich velvety color, so much in demand for hanging baskets, porch boxes, etc. $\frac{1}{16}$ oz., \$4.00; pkt., 25c.

Rose of Heaven. Select rich rose. Oz., \$4.00; $\frac{1}{4}$ oz., \$1.10; pkt., 10c.



Double Fringed Dwf. Max. Mixed

Single Petunia, Royal Purple





Garden Pinks

Pinks (P)

(DIANTHUS)

Double. Selection of the best double Pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades. $\frac{1}{4}$ oz., 75c; pkt., 10c.

Phlox (A)

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost or care.

Phlox Drummondii. Unsurpassed for variety of colors. Flowers are smaller than those of the large flowering varieties. **Mixed.** $\frac{1}{4}$ oz., \$1.25; pkt., 10c.

Scarlet, Large Flowering. Pkt., 10c.

Phlox Decussata. (Perennial.) $\frac{1}{4}$ oz., \$1.00; pkt., 10c.



Phlox Drummondii

Poppies (A)

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

Shirley, Single. Lovely and dainty shades, many edged and shaded with other colors. $\frac{1}{4}$ oz., 20c; oz., 60c; pkt., 10c.

Shirley, Double. Beautiful double satiny flowers in shades of white, pink and old rose with white centers. Oz., 80c; $\frac{1}{4}$ oz., 25c; pkt., 10c.

American Legion. Pkt., 10c.

Double Shirley, Sweet Briar. Pkt., 10c.

Pansies (B)

They like a cool, moist soil and protection from the wind as well as the noon-day sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the spring, the seed should be sown in August or September and the plants protected with a cold frame during the winter. May also be sown out-of-doors in the spring for late summer and fall flowers.

Improved Swiss Giants. The flowers are of gigantic size, perfectly round, fine substance of flower and good form of plant. They bloom early in the spring, continuing in flower all summer until late in the fall. 1 oz., \$10.00; $\frac{1}{4}$ oz., \$3.00; $\frac{1}{8}$ oz., \$1.75; pkt., 10c.

Giant Mixture, Donovan Strain. Flowers very large, and great diversity of colors. This mixture contains all the good ones. Oz., \$10.00; $\frac{1}{4}$ oz., \$3.00; pkt., 10c.

Superb Giant Mixed. Pkt., 10c.



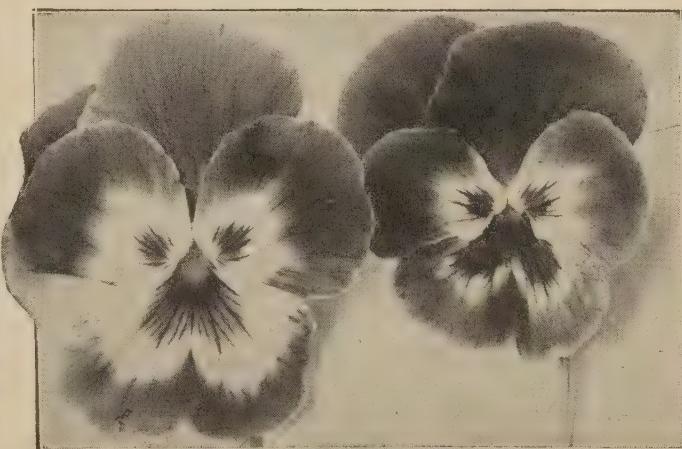
Oriental Poppies

Oriental Poppies (P)

These should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July and August appearing again as soon as the weather gets cool. It is well to mark the place with a stick so the roots will not be disturbed during the resting period. When the fall growth starts they should be transplanted to their permanent flowering quarters. Flowers of immense size, 6 inches and over, of many novel colors.

Hybrids, New Mixture. $\frac{1}{4}$ oz., \$1.25; pkt., 10c.

PRIMULA, Primrose. Pkt., 10c.



Pansies



Portulaca—Rose Moss

Portulaca (A)
(ROSE MOSS)

This plant will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and soon the loveliest of floral carpets will appear. Double Best Mixture. $\frac{1}{4}$ oz., \$1.25; pkt., 10c. Single Mixed. $\frac{1}{4}$ oz., 75c; pkt., 10c.



Salpiglossis

PRIMROSE, Showy Evening. Pkt., 10c.
PRIMULA, Malacoides, New Baby. Pkt., 25c.
RANUNCULUS. Pkt., 10c.

Salpiglossis (A)

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped, much like a Petunia but rivaling the latter in the beautiful colors displayed. Nearly every flower is veined with a glint of gold. Flowers are large and last well in water, really better than on the plants. Large Flowering Mixed. $\frac{1}{4}$ oz., 45c; pkt., 10c.

Salvia (A)
(FLOWERING SAGE)

A hedge or bed of Salvias is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about $\frac{1}{4}$ inch deep; transplant when soil is well warmed, about 12 to 18 inches apart.



Salvia, Fireball

Splendens. $2\frac{1}{2}$ ft. The well known variety, fiery scarlet. Oz., \$4.00; $\frac{1}{4}$ oz., \$1.25; pkt., 10c. Fireball. Oz., \$5.00; $\frac{1}{4}$ oz., \$1.50; pkt., 10c. Bonfire. Pkt., 10c. Farinacea. Blue. Pkt., 15c.

Scarlet Runner (A)

A very rapid grower, bearing large sprays of bright scarlet, pealike flowers from early summer to late fall. Oz., 25c; pkt., 10c.

Shasta Daisy (P)

(CHRYSANTHEMUM LEUCANTHEMUM)

Grows very bushy, bearing all summer a profusion of immense white flowers on long stems. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Scabiosa

(Mourning Bride) (A)

Grandiflora Mixed. Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends. Pictured on page 39. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Blue Moon. Pkt., 10c. Caucasica. Lavender-blue. Pkt., 25c.

SENSITIVE PLANT. Pkt., 10c.

SCHIZANTHUS.

Dr. Badger. Pkt., 10c.



Shasta Daisies

Rust-Proof Snapdragon (A)

(ANTIRRHINUM)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced on immense long spikes, which render them well adapted for cut flowers.

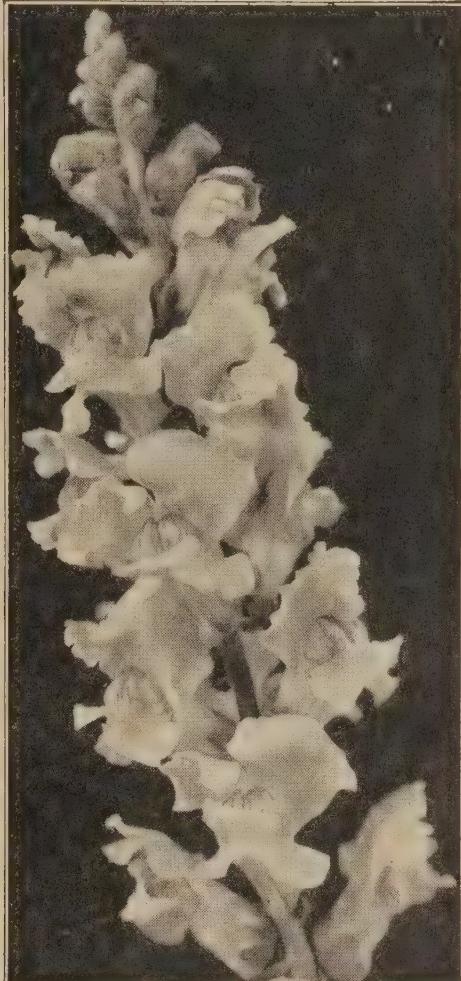
Dwarf Mixed. $\frac{1}{4}$ oz., 95c; pkt., 10c.Tall Mixed. $\frac{1}{4}$ oz., 90c; oz., \$2.85; pkt., 10c.

Giant Bedding Pink. R. R. Pkt., 10c.

Giant Bedding White. R. R. Pkt., 10c.

Giant Bedding Yellow. R. R. Pkt., 10c.

Giant Bedding Mixed. R. R. Pkt., 10c.



Snapdragon

Stocks (A)

Ten Weeks Large Flowering. The favorite sort for bedding. Grows about 1 ft. high. Mixed, all colors, $\frac{1}{4}$ oz., 65c; pkt., 10c.

Giant Perfection or Cut-and-Come-Again. Useful for outdoor bedding as well as for pots or cut flowers. They throw out numerous side branches, all bearing double, fragrant flowers. Height, 18 in. Mixed, $\frac{1}{4}$ oz., 75c; pkt., 10c.

Mammoth Beauty of Nice, Mixed. Pkt., 10c.

Giant Imperial Crimson. Pkt., 10c.

Giant Imperial Purple. Pkt., 10c.

Giant Imperial Rose. Pkt., 10c.

Giant Imperial Golden Rose. Pkt., 10c.

Sunflower (A)
(HELIANTHUS)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 feet.

Double Chrysanthemum-Flowered. Large, golden yellow flowers, resembling a Chrysanthemum. Oz., 50c; pkt., 10c.

Red and Gold. Pkt., 10c.

SNOW-ON-THE-MOUNTAIN. Pkt., 10c.

STATICE, Mixed. Pkt., 10c.



Sweet William

Strawflower (A)
(HELICHRYSUM)

An ornament to the garden when growing, and are prized everywhere for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place. Mixed, all colors. Oz., \$1.50; $\frac{1}{4}$ oz., 45c; pkt., 10c.

SWEET SULTAN. Pkt., 10c.

Sweet William (P)

This sturdy, reliable old-fashioned favorite is still a source of delight in the garden of today. Seed may be sown at any time from spring to midsummer. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. It is best if you give slight protection during the winter. It likes warm, rich soil. 2 feet.

Single, Finest Mixed. A very choice assortment of all the best single flowered varieties. $\frac{1}{4}$ oz., 50c; pkt., 10c.

Double Mixed. This mixture you will find of superior quality, containing all colors and shades. $\frac{1}{4}$ oz., 75c; pkt., 10c.

Single Early Flowering, Dwarf Midget Mixed. 6 inches A dwarf variety ideally adapted for early flowering, and for the perennial border as well as pot plants. 1 oz., \$5.00; $\frac{1}{4}$ oz., \$1.50; pkt., 10c.

SWEET WIVELSFIELD. Pkt., 10c.

TEXAS BLUE BONNET. Pkt., 10c.



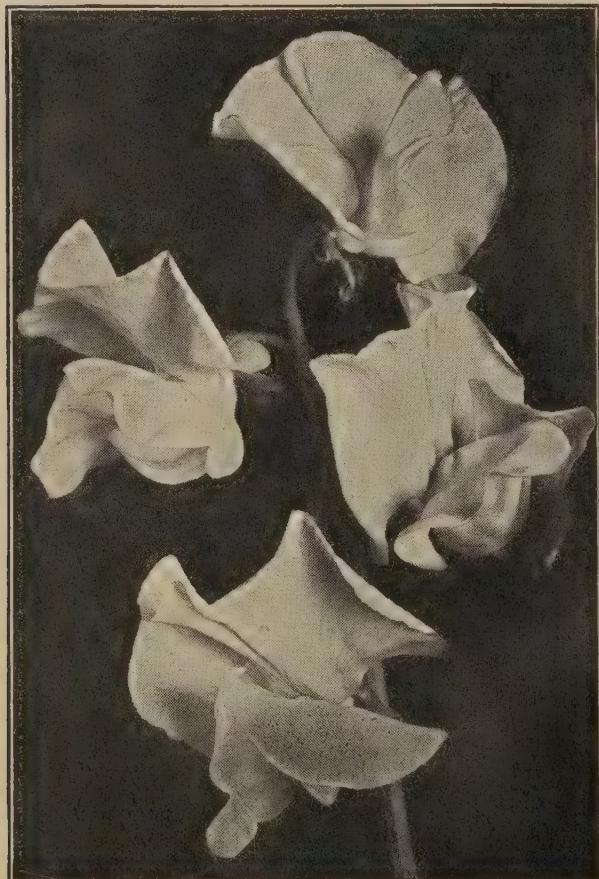
Ten Weeks Stocks

Beautiful Sweet Peas

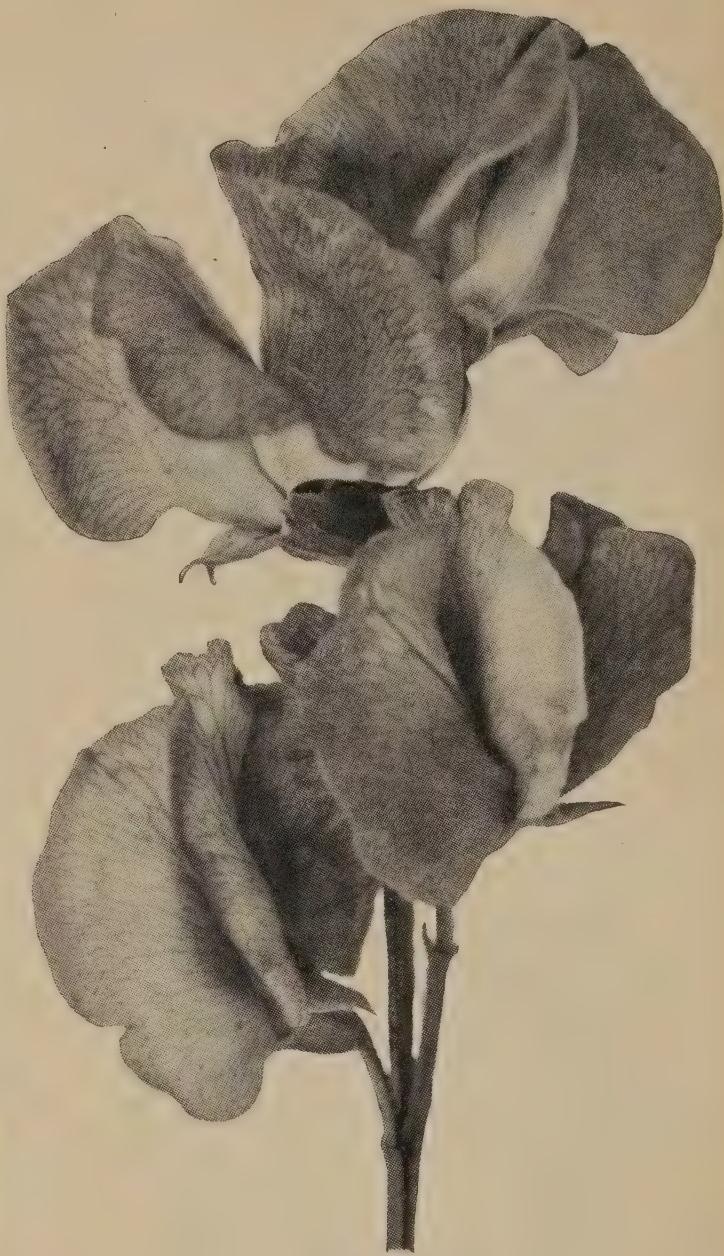
To grow Sweet Peas successfully it is necessary to plant EARLY and give plenty of moisture. They should go in the ground as soon as the ground can be worked and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and if the Sweet Peas are kept mulched with peat moss, lawn clippings or else watered abundantly, they will certainly give a fine crop of lovely flowers held in admiration by every flower lover. The mixture we give you below will give you color in profusion and is well worth your consideration.

Superb Spencer Mixed

A great many people prefer to grow Sweet Peas in the mixed colors. Our superb Spencer Mixture is made up of all the best varieties obtainable. The greatest care is taken to insure a well balanced range of colors and worthy of a place in any garden. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 65c; 1 lb., \$2.25, postpaid.



Gigantic



Fluffy Ruffles

Summer Flowering Spencer Varieties

We give you below the best of the Spencer varieties in a range of individual colors for those who want to work out a color scheme. Each one is a rare beauty and worthy of a place in your garden.

Ambition. Rich deep lavender.

Fluffy Ruffles. Rich rose-shaded salmon and cream duplexed.

Gigantic. Largest and best of the whites.

Mary Pickford. Dainty cream-pink, suffused salmon.

Mrs. Tom Jones. Bright blue.

Crimson King. Rich deep clear crimson.

Any of the above: Pkt., 10c.

Heat Resistant Mixed. Pkt., 10c.

Perennial Sweet Pea (Lathyrus latifolius). Oz., \$1.00; pkt., 10c.



Giant Dahlia-Flowered Zinnia.

Verbena (A)

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when the seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

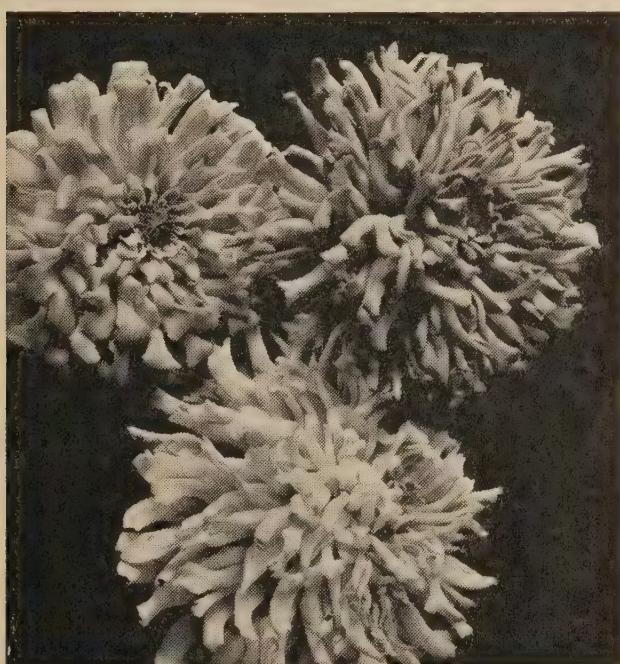
Mammoth Mixed. Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. Oz., \$1.90; $\frac{1}{4}$ oz., 60c; pkt., 10c.

Scarlet (Defiance). Pkt., 10c.

Wild Cucumber (A)

(*ECHINOCYSTIS LOBATA*)

This is the quickest growing climber in our list. It is thickly dotted over with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. $\frac{1}{4}$ lb., 75c; oz., 25c; pkt., 10c.



Zinnia, Fantasy

VIOLA, Blue Perfection. Pkt., 25c.

Jersey Gem. Pkt., 25c.

Mixed. Pkt., 10c.

WHITLAVIA. Pkt., 10c.

VINCA, Rosea. Pkt., 10c.

VIRGINIAN STOCK, Mixed. Pkt., 10c.

WALLFLOWER, Double Mixed. Pkt., 10c.

WILD GARDEN MIXTURE. Pkt., 5c.

Zinnias (A)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

Fantasy. This new Fantasy mixture with rounded flowers is composed of a mass of shaggy, raylike petals which give a delicate and refined appearance to the medium sized double flowers. They lend themselves gracefully to flower arrangements. The color range includes the brightest shades of red and orange, as well as the popular pastel pinks and cream. $\frac{1}{4}$ oz., 40c; oz., \$1.10; pkt., 10c.

Double Fantasy Mexicana Hybrid. Pkt., 10c.

Colossal or Giant Flowered. The flowers are gigantic in size; thickly set with velvety petals. The plants are vigorous, branching freely and are fine for cutting. Mixed colors. Oz., 90c; pkt., 10c.

Giant Double Lavender. Pkt., 10c.

Giant Double Purple. Pkt., 10c.

Giant Double Crimson. Pkt., 10c.

Giant Double Rose. Pkt., 10c.

Giant Double Yellow. Pkt., 10c.

Giant Double Orange. Pkt., 10c.

Giant Double Pink. Pkt., 10c.

Giant Double White. Pkt., 10c.

Giant Dahlia Flowered. In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias. Mixed colors. $\frac{1}{4}$ lb., \$3.25; oz., 90c; pkt., 10c.

Dahlia-Flowered Crimson. Pkt., 10c.

Dahlia-Flowered Orange and Gold. Pkt., 10c.

Dahlia-Flowered Scarlet. Pkt., 10c.

Lilliput Double, Mixed, or "Pompon." 12 inches. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are pretty plants. $\frac{1}{4}$ lb., \$3.25; oz., 90c; pkt., 10c.

Indian Summer Giant Mixture. Pkt., 10c.

All Giant Pastel Mixture. Pkt., 10c.

Creeping Zinnia. Pkt., 10c.

Cupid Tiny Tim. Pkt., 10c.

All prices quoted herein are subject to available stocks on hand, and subject to change without notice.

FIELD and FARM SEEDS



A Big Yield of Grimm Alfalfa

Alfalfa and Clovers

The acreage seeded to Alfalfa in Michigan is increasing every year. All of our seed is northern grown, therefore, it is best adapted to our climate.

Grimm Alfalfa
Common Alfalfa
Medium Red or June Clover
Mammoth or Large Red Clover
Alsike Clover
White Blossom Sweet Clover
Yellow Blossom Sweet Clover

Timothy
Orchard Grass
Sudan Grass
Reed Canary Grass
Brome Grass (*Bromus Inermis*)
Amber Cane
Atlas Sorgo
Soy Beans
Japanese Millet
Golden Millet
Lespedeza
Dwarf Essex Rape
Sand Vetch
Silverhull Buckwheat
Canadian Field Peas
Wisconsin 38 Barley
Marion Oats
Huron Oats
Vickland Oats

Seed Corn HYBRIDS

Kingcroft Hybrids
Michigan Hybrids
Silibred Ensilage
Wisconsin 355

OPEN POLLINATED

Pickett's Yellow Dent
Golden Glow
Early Murdock
Early White Cap Yellow Dent

Fodder Corn

Leaming
Red Cob
Eureka Ensilage

NITRAGIN

1898 — Nearly A Half Century of Service — 1946
When ordering, Always state name of seed.

ALFALFA

Sweet, Bur, Hubam Clovers
Size Retail
1 bu. each.....\$.50
2½ bu. each.....1.00

CLOVERS

Medium & Mammoth Red,
Alsike, Crimson & White Clovers
1 bu. each.....\$.50
2½ bu. each.....1.00

LESPEDEZA

100 lb. size (Inoculates up
to 100 lbs.) ea.....\$.50

PEAS (All Varieties)

VETCHES (All Varieties)
100 lb. size (Inoculates up
to 100 lbs.) ea.....\$.50
1200 lb. size ea.....5.70
(12-100 lb. cans)

LUPINES (All Varieties)

100 lb. size (Inoculates up to 100 lbs. seed) ea.....\$.50

GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima
Beans and Edible Soybeans.

Enough for 8 lbs. seed — Retail Price 10c each

SOYBEANS

Size	Retail
Small (Inoculates up to 120 lbs. seed)	\$.30
5 bu. each .....	.55
25 bu. (One can)....	2.50
30 bu. (6-5 bu. cans) ..	3.25

BEANS—Navy, Pinto,
Wax, String, Kidney
and Great Northern

1 bu. each.....\$.35

PEANUTS, LIMA BEANS, COW PEAS

Small (Inoculates up to 120 lbs. seed)	\$.30
5 bu. each .....	.55
25 bu. (One can)	2.50
30 bu. (6-5 bu. cans) ..	3.25

Permit us to quote you on your requirements.

Farm Fertilizers

Commercial fertilizers are those which are used for general farm purposes, and are composed of the three elements of plant food, namely Nitrogen, available Phosphoric Acid and Potash K²O and are mixed by the world's largest fertilizer manufacturers in the proper proportions, so as to give your soil the proper available plant food to produce a maximum crop. We handle large quantities of the various analyses every year and will ask that you consult us and get the right fertilizer for your specific needs. Prices will be quoted upon application.

Mixed Fertilizers. Standard analyses.

Nitrate of Soda
Sulphate of Ammonia
Super Phosphate
Muriate of Potash

Steamed Bone Meal
Pulverized Sheep Manure
Shredded Cattle Manure
Lime
Manganese Sulphate
Aluminum Sulphate

Copper Sulphate
Ammonium Nitrate
Cyanamid
Zinc Sulphate
Magnesium
Iron Sulphate

Insecticides and Seed Disinfectants

Arsenate of Lead. For all leaf-eating insects. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

Black Leaf 40. A solution of Nicotine Sulphate used to kill plant lice. 1-oz. bottles, 5-oz. bottles, 1-lb. bottles, 2-lb. bottles, 5-lb. cans, 10-lb. cans, and 50-lb. drums.

Black Leaf 155. 14% Nicotine. A prepared dry compound of nicotine for the control of codling moth and other insects. 3-lb. pkgs.

Bordeaux Mixture. Used in spraying for blight and fungous diseases. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

Calcium Arsenate. Used in dusting or spraying cabbage and potato crops. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

Calomel, "Merck." Used for onion thrip and maggots.

Ceresan, New Improved. Seed disinfectants for wheat, oats, etc. 1-lb. cans, 4-lb. cans.

Corrosive Sublimate. For treating potatoes and other plants before setting out. $\frac{1}{4}$ lb., 1 lb., 25 lbs.

Cuprocide, Yellow (Red Copper Oxide). For seed treatment. Used in greenhouses to prevent damping off and black leg. 3-lb. bags only.

Cyanogas A Dust. Calcium Cyanide for killing all rodents. 1-lb. cans, 5-lb. cans.

Cyanogas G Fumigant. For greenhouse fumigation or general fumigation of all enclosed spaces. 4-oz. cans, 5-lb. cans, 25-lb. drums.

D. D. T. Dusts and liquids.

Dusting Sulphur. Used for crop dusting. Sold in 100-lb. bags or in bulk.

Evergreen. Is again available and can be obtained in the following sizes. 1 oz., 6 ozs., 16 ozs., 32 ozs.

Formaldehyde. Liquid mixed to prevent smut in onions, potato treatment, etc. Sold in your container or in 50-gal. drums.

Paris Green. A very strong insecticide for all eating insects. $\frac{1}{4}$ -lb. pkgs., and 1-lb. pkgs.

Krop-Saver No. 10 Pyrocide Dust. Very effective on cucumber beetles, squash bugs, etc.

Krop-Saver C-1 Dust. Tri-basic copper sulphate for blight control on vegetables.

Krop-Saver No. 5-C Dust. Pyrethrum and copper combination bug and blight control.

Krop-Saver No. 75 Dust. Recommended for cabbage and cauliflower worm control.

Red Arrow Spray. A concentrated rotenone spray in 1-oz., 4-oz., 1-pt., 1-qt., and 1-gal. bottles.

Rootone. A hormone root forming powder to stimulate root growth on cuttings. Various sizes.

Transplantone. A root stimulant used in the transplanting of various plants.

Semesan. A seed disinfectant for surface borne organisms as well as soil borne fungus.

Semesan Bel. For treating potatoes and certain flowering bulbs.

Semesan Jr. Used for the treatment of seed corn.

Slug Shot. An old reliable dusting powder for killing cabbage worms, potato bugs and other chewing insects.

Spergon. Treat beans and peas with this chemical and prevent decay of seed during the sprouting period as well as later.

Tobacco Dust. Finely ground. Sold in bulk, any quantity, or in 100-lb. bags.

PRICES WILL BE QUOTED ON APPLICATION

Small Implements and Hand Tools

Hand Trowels.

Hand Cultivator. 5-prong Gardex No. 1605 \$1.50

Hand Cultivator. 5 wide points. Gardex No. 1635. 2.00

Garden Hoes. Gardex No. 906 $\frac{1}{2}$ 75

Garden Rake. 14-tooth straight Gardex No. 251 .. 1.00

Garden Rake. 14-tooth bow Gardex No. 250 1.20

Corn Planter 1.60

Corn Planter with fertilizer attachment	\$2.75
Potato Planter	1.15
Potato Planter with conveying tube	1.75
Short Handled Weeder	.35
Asparagus Knives	.35
Asparagus Knives. Wider blade	.50
Lawn Sweep. Steel flexible teeth	1.20

D. S. T. True Temper Hand Garden Trowel.
O. L. D. True Temper 4-Tine Spading Fork.

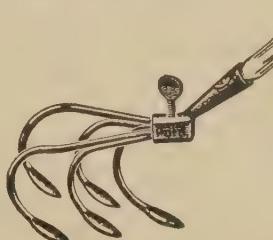


Garden Hoe
No. 906 $\frac{1}{2}$



Garden Rake
No. 250

Short Handled Weeder

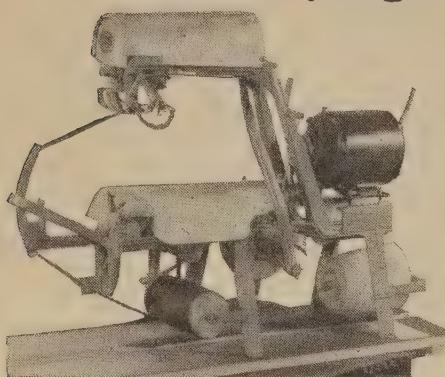


Hand Cultivator
No. 1605



Hand Cultivator
No. 1635

Electric Tying Machine



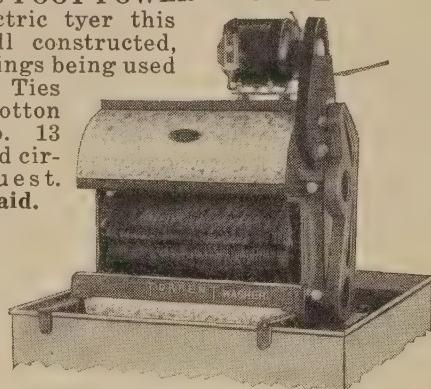
The Felins Electric Tying machine is a great time saver. Will handle 6- to 16-ply cotton twine as well as No. 13 and No. 17 braid. Is equipped with a $\frac{1}{4}$ h.p. electric motor, 110 volts. Top speed 45 bunches per minute. \$150.00, not prepaid.

FELINS FOOT POWER MACHINE

Like the electric tyer this machine is well constructed, dual roller bearings being used where needed. Ties 6- to 16-ply cotton twine and No. 13 braid. Illustrated circular on request. \$75.00, not prepaid.

Felins Torrent Bunch Washer.
\$140.00
not prepaid.

Felins Root Crop Washer.
\$175.00
not prepaid.



Felins Torrent Bunch Washer

FERTO POTS

For earlier, better crops and bigger profits.

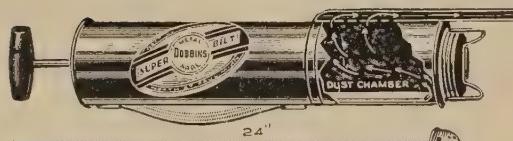
FERTO-POTS produce earlier crops and more abundant yields, and are extensively used by the most successful gardeners.

FERTO-POTS are constructed of manure and fertilizer in the correct proportions for best plant growth and for holding the moisture at roots of the plants. The plants are not removed from the pots when they are set out. Simply set pot and all in the ground and the roots will grow right through the pot which slowly breaks down, furnishing valuable plant food. Roots are not disturbed and the plants are not checked.

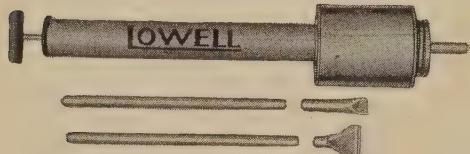
Carton of 100 No. 3 (3 inch), \$3.00, not prepaid.
Carton of 250 No. 3 (3 inch), \$5.00, not prepaid.



Sprayers and Dusters



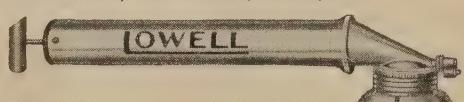
No. 132. Dobbins Hand Dust Gun.



No. 465. Quart capacity, 20" over all, plus 2, 12" extensions, 1 $\frac{1}{2}$ " diameter.

pump. Ideal for use in field and garden.

No. 460. Household Duster, 12 in. over all, 1 $\frac{1}{2}$ in. diameter. Ideal for use in exterminating pests in the home, henhouse, barn, etc.



No. 206G. 1 $\frac{1}{2}$ " x 13" pump. Adjustable two-way nozzle. Heavy glass container, brass valves, etc. 1 quart.



No. 240. Quart size garden sprayer made of heavy tin.

No. 250. Flyer pint size sprayer same design as No. 240 quart size.

We also handle the "Dobbins" line of small sprayers, as well as their No. 200 crank, 2-row duster.

F.O.B. Grand Rapids.
Prices gladly quoted upon request.

The Lowell Pennant Sprayer is used in the spraying of small orchards, gardens, shrubbery, field crops, for whitewash, disinfecting, the removal of old wallpaper, etc. The correct dimensions and structural design enable the Lowell Pennant to develop and maintain very high pressure.

No. 46G Pennant. Tank 4-gal. capacity, galvanized, 24" brass extension, 27" hose, adjustable strap, D-handle, Sealite open Nu-top.



No. 94G Streamer. Tank 3 $\frac{3}{4}$ gal., galvanized, 24" brass extension, 24" hose, adjustable strap, D-handle, Sealite open Nu-top.

No. 93. Reliable. Tank 3 $\frac{3}{4}$ gal., galvanized, 24" brass extension, 24" hose, adjustable strap, D-handle, Fun-top.

No. 26G Junior. Tank 2 $\frac{1}{2}$ gal., galvanized, 24" extension, 24" hose, adjustable strap, D-handle, Sealite Nu-top.

No. 20 Flame Sprayer. Tank 3 $\frac{3}{4}$ gal. capacity, galvanized, Sealite Nu-top. Used to control weeds, burning of rubbish, stumps, etc. Burner develops 2000°, 12" flat flame. 60-lb. pressure gauge mounted on handle.

ROOT DUSTERS

Hand Gun, C-3.

Traction Dusters. 1- and 2-row.

Power Dusters. All sizes.

Your Inquiries
Solicited

Greenhouse Staples.

Zinc Points.

Garlanite Putty. In 1-gallon cans \$2.45

Old English Putty. In 1-gallon cans 2.45

Twist-Ems. 8-inch length, for tying plants and flowers. 25c per carton of 250.

Utility Twist-Ems. For vegetable bunching and commercial use. 7-inch length. In 10,000 lots only. \$1.50 per 1000.

Rubber Bands. No. 12 and No. 16, for vegetable tying. Other sizes when obtainable.

KIL-BALM



DO YOUR PART—

to get rid of these thieves that waste the food so vitally needed throughout the world today. **No-body likes a rat.** Rats carry disease. Rats and mice do almost two hundred million dollars' damage each year. Let's get rid of thieves.

Nobody Likes a Rat!

6 ozs., 50c; 16 ozs., \$1.00, f. o. b.
Grand Rapids.



Hyponex is a clean, odorless, soluble powder which, with water, is a complete plant food. It grows bigger and better plants in poorest soil, even in sand, cinders or water—indoors or outdoors. Assures larger and more flowers, increased quantities of vegetables, and more prolific growth for grass, plants, bushes and trees. 1 lb. makes 100 gallons; 1 oz. makes 6 gallons; 1 teaspoon makes 1 gallon. 1 oz., 10c; 3 ozs., 25c; 1 lb., \$1.00.

KEM LIQUID PLANT FOOD. 4 ozs., 10c; 12 ozs., 25c; 1 qt., 50c; 1 gal., \$1.00.

Germāco Hotkaps

or Plant Protectors

25 garden size package	\$ 0.50
100 package complete	1.95
250 package complete	3.50
1,000 carton. Per 1000	11.00
5,000 carton. Per 1000	10.75
10,000 carton. Per 1000	10.50
25,000 carton. Per 1000	10.25
Steel Setters. Each	1.35
Fiberboard Setter Alone. Each .....	.15

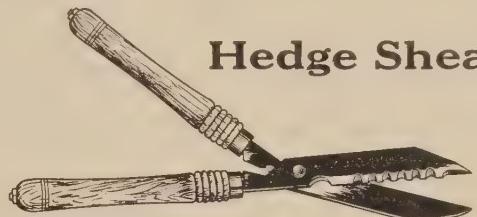
We do not split packages of Hotkaps.

HOT TENTS. They're larger. 1000 \$16.00
Transportation charges prepaid in Michigan.

Soil Disinfectants

Chloropicrin (Tear Gas). Has long been known as the best means of disinfecting soil for disease and nematodes that are in the soil.

Larvacide is the trade name for high-test Chloropicrin, manufactured especially for soil treatment and food product fumigation. LARVACIDE is a heavy, colorless liquid (or with yellowish tinge) which volatilizes (gasifies) readily into a tear gas. Applied under soil surface as a liquid, LARVACIDE volatilizes and then spreads through the soil mass. Completely volatile, it leaves no harmful residue. Ask us about this product for disinfecting your soil and the method of doing it.



Hedge Shears

The Famous Corona Hedge Shear. Now offered for the first time since the war began. We expect to have these in stock. \$3.85 each.

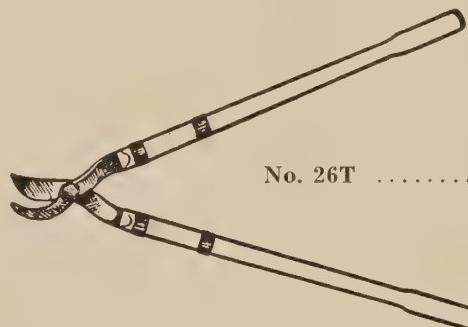
T. D. 8 inch "True Temper" Hedge Shear.

Hand Pruners

The famous Hawley Pruning Shears now made by Corona under the name Corona-Hawley. For many years these shears have been demanded by orchardists and nurserymen all over the country.

We offer the following numbers:

Corona-Hawley

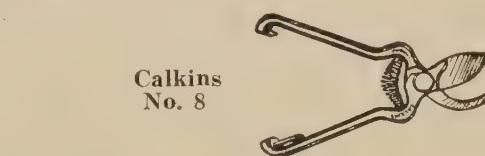


No. 26T \$5.50



Calkins "Pro"
No. 800

Calkins Pruners have attained an enviable reputation in California's greatest nurseries and orchards. The No. 800 is the professional model and is used by fine workmen who demand the best. Hollow ground for easier cutting. \$5.25 each.



Calkins
No. 8

Calkins No. 8, the original, is smaller than the "PRO," but of the same high grade steel and workmanship. Weighs only seven ounces, but does the heaviest work. Hollow ground for easier cutting. \$3.95 each.

No. 119. 8 inch "Snap Cut" Hand Pruning Shear.
No. 19. 8 inch "Snap Cut" Hand Pruning Shear.

No. 5408. 24 inch Handle Pruning Shear.

Also a 12 inch Sectional Pruning Shear.

F. o. b. Grand Rapids.

PLANTER'S GUIDE

Variety	Seed for 50 Ft.	Seed for 1 Acre Lb.	Rows Apart Feet	Plants Apart in Rows Inches	Planting Depth Inches	Days to Yield
Asparagus	1/2 oz. 30 plants	....	2 1/2	20	6	2 yrs.
Beans, Bush	4 ozs.	60 to 75	2 to 2 1/2	3 to 4	1 1/2	50 to 70
Beans, Pole	4 ozs.	30 to 35	3 to 4	9 (or hills)	1 1/2	65 to 80
Lima Beans, Bush	4 ozs.	30 to 50	2 to 2 1/2	3 to 4	1 1/2	65 to 75
Lima Beans, Pole	4 ozs.	30 to 40	3 to 4	9 (or hills)	1 1/2	80 to 90
Beet	1/2 oz.	4 to 6	1 1/2 to 2	3 to 4	1/2	60 to 75
Swiss Chard	1/2 oz.	....	2	15	1/2	50 and on
Broccoli	1 pkt.	1/4	2	18	1/4	70 to 80
Brussels Sprouts	1 pkt.	1/4	2	18	1/4	70 and on
Cabbage, Early	1 pkt.	1/4	2	12	1/4	65 to 75
Cabbage, Late	1 pkt.	1/4	2	18	1/4	80 to 100
Chinese Cabbage	1 pkt.	2	2	12	1/4	75 to 85
Carrot	1 pkt.	2 to 3	1 1/2	3	1/4	60 to 75
Cauliflower	1 pkt.	1/4	2	18	1/4	55 to 65
Celeriac	1 pkt.	1/4	2	4	1/8	90 to 120
Celery	1 pkt.	1/4	2 to 3	5	1/8	120 to 150
Collards	1 pkt.	....	2 1/2	24	1/4	90 and on
Sweet Corn, Early	1 oz.	8 to 10	2 1/2	9	1	70 to 80
Corn, Main Crop	1 oz.	8 to 10	3	12	1	80 to 95
Cucumber	1 pkt.	2	4	24	3/4	60 to 70
Egg Plant	1 pkt.	1/4	3	30	1/2	70 to 85
Endive	1 pkt.	4 to 5	1 1/2	9	1/4	70 to 80
Kale	1 pkt.	4 to 5	2 1/2	24	1/4	70 to 80
Kohlrabi	1 pkt.	4 to 5	2	8	1/4	55 to 65
Leek	1 pkt.	3 to 4	1 1/2	6	..	120 to 150
Lettuce, Leaf	1 pkt.	3	2	12	1/4	45 to 50
Lettuce, Head	1 pkt.	3	2	12	1/4	50 to 70
Muskmelon	1 pkt.	3 to 4	5	48	1	80 to 100
Mustard	1 pkt.	4	2	9	1/4	60 to 75
Okra	1/2 oz.	8	3	15	1	50 to 60
Onion, Seed	1 pkt.	3 to 4	1 1/2	3 to 4	1/2	90 to 100
Parsley	1 pkt.	4	1 1/2	4	1/4	85 to 100
Parsnip	1 pkt.	4	1 1/2	4	1/2	80 to 100
Peas	1/2 lb.	90 to 180	2 to 3	1 to 2	1	60 to 80
Pepper	1 pkt.	1/4	2 1/2	24	..	65 to 80
Pumpkin .....	....	3 to 4	8	60	1	110 to 130
Radish	1 pkt.	10 to 12	1	1 to 2	1/2	25 and on
Rhubarb	10 plants	2 to 3 for plants	4	48	1/4	2 to 3 yrs.
Salsify	1 pkt.	....	1 1/2	2	1/4	140 to 180
Spinach	1 pkt.	15 to 25	1 1/2	6	3/4	40 to 50
Spinach, N. Z.	1 pkt.	....	3	20	1	70 to 80
Squash, Bush	1 pkt.	6	4	36	1	55 to 65
Squash, Vining	1 pkt.	4	6	60	1	65 to 120
Tomato	1 pkt.	1/4	3 to 4	36	1/2	75 to 90
Turnip	1 pkt.	2 to 3	1 1/2	4 to 6	1/4	50 to 80
Rutabaga	1 pkt.	1 to 2	2	6	1/4	80 to 90
Watermelon .....	....	3 to 4	8	96	3/4	75 to 95

NUMBER OF PLANTS TO THE ACRE AT GIVEN DISTANCES

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840
12 x 3 in.	174,240	30 x 1 in.	209,088	42 x 12 in.	12,446
12 x 12 in.	43,560	30 x 6 in.	34,848	42 x 24 in.	6,223
16 x 1 in.	392,040	30 x 12 in.	17,424	42 x 36 in.	4,148
18 x 1 in.	348,480	30 x 16 in.	13,068	48 x 12 in.	10,890
18 x 3 in.	116,160	30 x 20 in.	10,454	48 x 18 in.	7,790
18 x 12 in.	29,040	30 x 24 in.	8,712	48 x 24 in.	5,445
18 x 18 in.	19,360	30 x 30 in.	6,970	48 x 30 in.	4,356
20 x 1 in.	313,635	36 x 3 in.	58,080	48 x 36 in.	3,630
20 x 20 in.	15,681	36 x 12 in.	14,520	48 x 48 in.	2,723
24 x 1 in.	261,360	36 x 18 in.	9,680	60 x 36 in.	2,901
24 x 18 in.	15,520	36 x 24 in.	7,260	60 x 48 in.	2,178

Approximate number of feet of row per acre at given distances:

Distance between rows: 18 inches	24 inches	30 inches	36 inches	42 inches	48 inches
Feet of row: 29,010	21,758	17,427	14,526	12,439	10,853

1946

PLEASE USE THIS ORDER SHEET

GRAND RAPIDS GROWERS,^{Inc.}

Grand Rapids, Michigan

NAME Date 19
Write very plainly.

Post Office State

Street, P. O. Box
or Rural Delivery _____

Express or Freight Office (If Different from P. O.) Forward Goods by _____
(Railroad, Post Express, Freight Car, Rail Truck, etc.)

AMOUNT ENCLOSED

5%

Money Order - - \$.....

**If Your Order
Amounts to
\$1.00 or More.**

Draft or Check - \$

Postage Stamps - \$.....

Cash - - - - - \$49

DISCOUNTS

Except on Peas, Beans and Corn

10%

If Your Order
Amounts to
\$5.00 or More.

This discount applies on spring orders of GARDEN SEEDS only, if ordered before April 1st. Orders received after April 1st are not subject to discount. Michigan State sales tax will be charged where applicable.

ALL OTHER ITEMS ARE NET CASH AS QUOTED. MONEY MUST ACCOMPANY ALL ORDERS. DISCOUNTS DO NOT APPLY ON CANADIAN ORDERS.

More Order Blanks will be sent upon request. Always write letters on a separate sheet from your order.

Make Money Orders or Checks payable to Grand Rapids Growers, Inc.

All of our seeds are tested, and we guarantee the vitality and purity to the full amount of the purchase price, and you can have full redress at any time if you are not satisfied with the results but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore in no case can we be held liable for more than the amount actually paid for the seeds.

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

PLANT A VICTORY GARDEN FOR DEFENSE

ORDER SHEET — Continued

SPECIAL NOTICE: As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

From _____

R. F. D. or Box No. _____

P. O. _____

State _____

FIRST CLASS
Permit No. 698
(Sec. 510, P.L. & R.)
GRAND RAPIDS, MICHIGAN

BUSINESS REPLY ENVELOPE
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

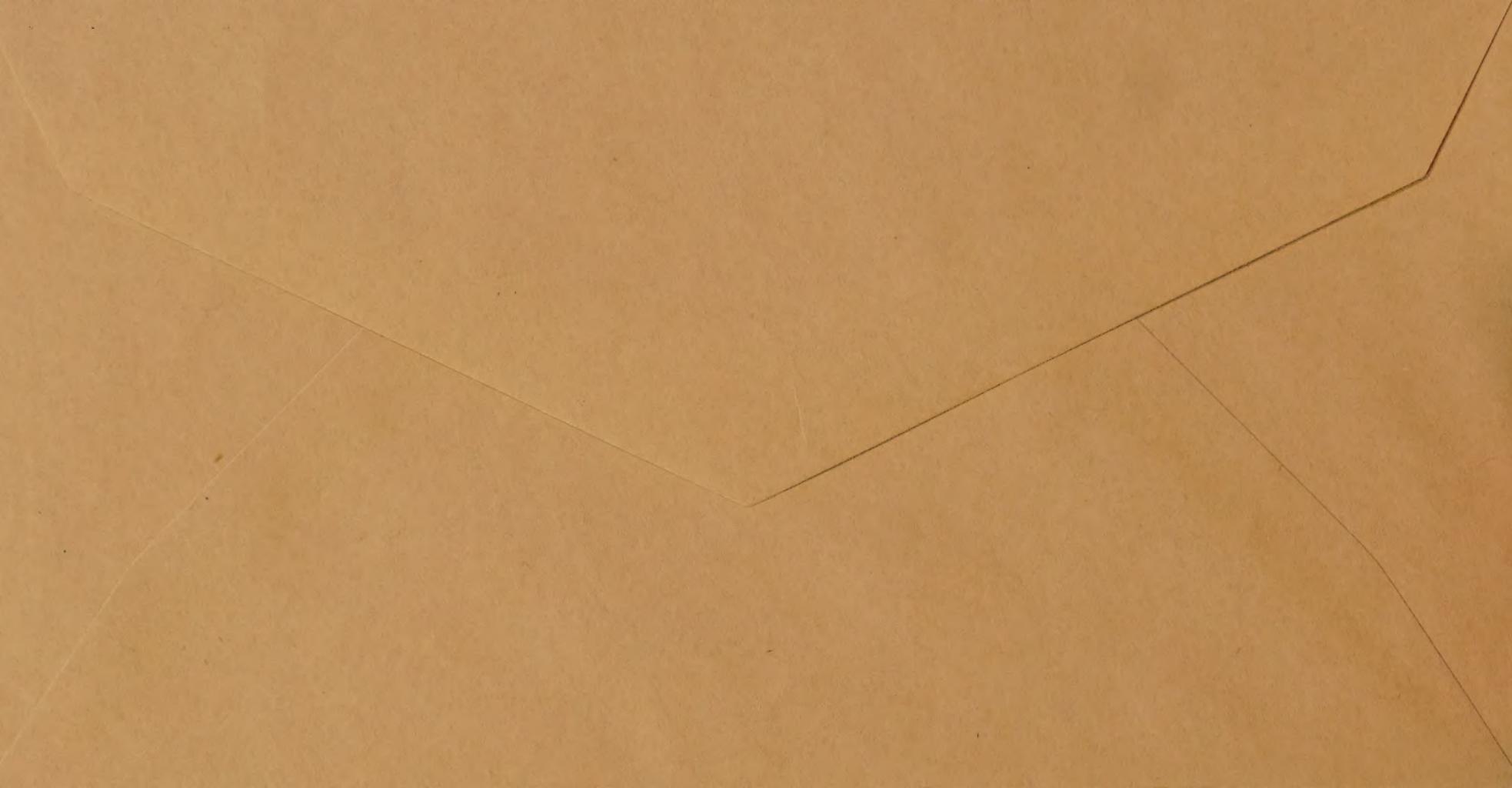
- POSTAGE WILL BE PAID BY -

GRAND RAPIDS GROWERS, INC.

GRAND RAPIDS,

COR. WEALTHY AND IONIA AVE., S. W.

MICHIGAN





Beet, Detroit Dark Red, Morse's Strain

See page 5.

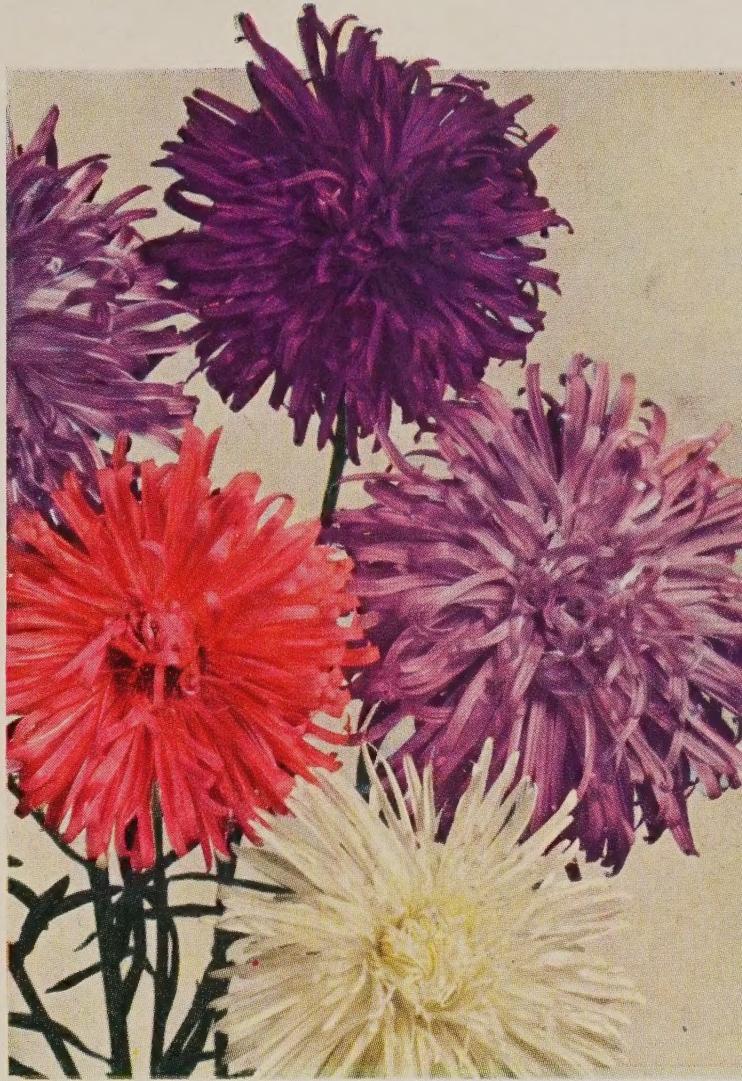
(55 days.) The best for market garden or home use. Roots smooth, medium size, globe shaped; skin dark red; flesh solid vermillion-red. Tops small, upright, dark green, shaded red.



Petunia, Giants of California Ruffled

See page 40.

MIXED. The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc.



Aster, Giant Crego

See page 34.

The flowers are of immense size, usually measuring from 4 to 5 inches in diameter and borne on stems 12 inches or more in length. Wonderful for cut flowers.



Carrot, Chantenay, Long Type

See page 11.

(70 days.) A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer, but fully as large; stump-rooted at maturity. Texture and color equal to the Red-Cored Chantenay. Suitable for bunching or bushel use.



SWEET PEAS

Mary Pickford. Dainty, cream-pink, suffused salmon. See page 44 for other varieties and prices.



MARIGOLD

Every home lover should grow SWEET PEAS. They should be planted early, and will give you a fine crop of lovely flowers held in admiration by every flower lover.



Scabiosa (Mourning Bride)—See Page 42



Salvia Splendens—See Page 42